OPHTHALMOLOGICAL THERAPEUTICS

DR. LANDOLT - DR. GYGAX



Lippincott's Medical Dictionary.

A Complete Vocabulary of the Terms used in Medicine and the Allied Sciences, with their Pronunciation, Etymology, and Signification, including much Collateral Information of a Descriptive and Encyclopædic Character.

PREPARED ON THE BASIS OF "THOMAS'S COMPLETE MEDICAL DICTIONARY."

By RYLAND W. GREENE, B.A.,

WITH THE EDITORIAL COLLABORATION OF

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ANNEX

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reliable. The latest terms are given, so that we may truthfully say that it is the most complete dictionary issued up to date. It certainly deserves a large sale, and will meet with it, if superior excellence is any criterion. The publishers are certainly to be congratulated on the issuance of this really meritorious work."—St. Louis Medical and Surgical Journal.

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VADE MECUM

OF

OPHTHALMOLOGICAL THERAPEUTICS

BY

DR. LANDOLT AND DR. GYGAX



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INTRODUCTORY.

OUR object in publishing this little work is to put into the hands of the profession a vade mecum containing in a concise form the indispensable facts of special therapeutics. This work is not a treatise of ophthalmological therapy, nor is it a dictionary, either of which would have made up a volume far larger than the small, easily portable guide, which we desired to produce.

It is our aim to give a constant companion, a true friend to the busy practitioner and to the student preparing for examination.

To facilitate the handling of our vade mecum we have arranged the headings in alphabetical order, thus saving the reader the trouble of looking up the index.

As the pharmaceutical part—the dosage of certain remedies and the most appropriate form of administering them—escapes the mind more easily than the general therapy, we have taken particular pains with our formulas.

It is clear that we could not enumerate all rem-

INTRODUCTORY

edies and formulas. We have limited ourselves to giving the most important, in order not to embarrass by the amount of matter those hurriedly looking up a subject.

Different type is used: for the general text; for titles at the top of the page; for the title of each article; for formulas, and for the method of their use.

Where method of application is not quoted under recipes it appears in the corresponding place of the text.

We have purposely omitted in our little work those modern forms of treatment, the therapeutic value of which is not yet established.

Nor did we describe the different operative methods, which would require a lengthy explanation or drawings or photographs. Our guide would in this manner have become much too voluminous to accompany the busy practitioner.

Our thanks are due to Professor Fournier, to whom we are indebted for the important chapter on the treatment of syphilis.

Mr. C. F. Haussmann, of St. Gall, the eminent chemist and pharmacologist, has had the kindness to review the chemical and pharmaceutical part of our little work. Without his help we would have committed only too many of those chemical heresies so frequently met with in medical literature.

INTRODUCTORY

The translation of the vade mecum into the English language has been made with the kind assistance of Dr. E. H. Neyman, of Milwaukee. We wish to express our thanks for the interest he has taken in the subject, and particularly for the considerable part of his time devoted to the work in question.

We must also not forget our publishers, who have acquitted themselves with as much good-will as success of their at no time easy task of giving this little volume the convenient form, which we hope will contribute to win for it a place, if not in the libraries, at least in the pockets of our colleagues.



OPHTHALMOLOGICAL THERAPEUTICS.

1. ACCOMMODATION, PARALYSIS AND PARESIS OF THE.

Search for and treat the *systemic disease*, cause of the paralysis [anemia, disease of the brain or of the general nervous system, syphilis, diabetes, systemic poisoning].

Faradization: Positive pole upon the centre of the closed eye. Negative pole is passed along the orbital border, an even pressure being used.

Myotics [Eserine (111) or pilocarpine (251a)].—Paralysis of the accommodation being, as a rule, of long duration, limit the use of myotics to the time of eye work, and use strictly but the dose necessary to get effect wanted. Should the patient not stand the drng well, or should drug show itself inefficacions, add to the accommodation by convex lenses, adapting the eye to the necessary distance.

In cases of paralysis of *diphtheritie* origin: Strengthening food, open air, quinine (259), iron (164), hot baths.—Injections of strychnine (300 a).

In *rheumatic* paralysis: Ergot (109), salicylate of sodium (275), ointment of veratrine (318), of strychnine (300 b), or periocular massage.

2. ACCOMMODATION, SPASM OF THE.

Mydriatics [Atropine (23 a) or scopolamine (284)].—Rest; smoked glasses. Where there is hyperæsthesia of the retina, stay in darkened room.

As soon as the spasm seems fully overcome, lessen the dose of the mydriatic; work to be resumed gradually and carefully, beginning with *convex lenses* to entirely free the accommodation. Slowly the strength of these glasses can be diminished.

Acetanilid. See Antifebrin (14). Achromatopsis. See Daltonism (94).

3. ÆSORCIN.

Same use as Fluorescin (117). A 10 to 20 per cent. solution will stain the corneal erosion red immediately upon instilling. The red stands out better than the green of fluorescin on the colored background of the iris and the black of the pupil.

4. ALBINISM.

Smoked glasses. Where the nystagmus which frequently accompanies it is not very pronounced, stenopæic glasses.

Albugo. See LEUCOMA OF THE CORNEA (87).

5. ALCOHOL, ABSOLUTE (TEST FOR PURITY OF).

Add a small crystal of sulphate of copper to the alcohol; pure alcohol will remain colorless.

Alkali, volatile. See Ammonia (10). Aldehyde, formic. See Formalin (119).

ALUM-AMBLYOPIA

6. ALUM.

| α. | Alum | | | | | | | 2 50 | 38 gr. |
|----|------------------------------|--|--|--|--|--|--|--------|--------|
| | Rose water . Distilled water | | | | | | | 50 00 | 133 |
| | Distilled water | | | | | | | 150 00 | 53 |

b. Pencil of alum, crystal of pure alum, for cauterizations of the conjunctiva.

Amaurosis, cerebral. See Amblyopia and Cerebral Amaurosis.

AMBLYOPIA AND AMAUROSIS, CER-EBRAL.

Treat the systemic disease [uræmia, typhoid fever, scarlatina, epilepsy, loss of blood, intense pain, hysteria.]

In cases where the cause is unknown: Absolute rest, darkened room, injections of strychnine (300 a).—Suggestion.—Eye-douches (99).

8. AMBLYOPIA, CONGENITAL.—AM-BLYOPIA FROM LACK OF USE.

Where there is congenital cataract: Operate.

—Iridectomy in case of corneal opacities.—Correct strabismus.

Methodical visual exercise of the amblyopic eye by itself several times daily five to ten minutes at a time. Correct astigmatism and aid accommodation according to needs with convex lenses.

Exercise eccentric vision. Where possible: Stereoscopic exercise to achieve binocular vision.

9. AMBLYOPIA, TOXIC.

Treat according to cause.—Stop tobacco and alcohol.—Milk diet.—Treat inflammation of stomach,

AMMONIA - ANISOMETROPIA

digestive troubles, and insomnia (140). Carlsbad salts, tonics, hygienic diet.—Hydrotherapy (98), Turkish baths.

10. AMMONIA.

For instance:

| Carbonate of ammonia | | | ٠ | 12[0 | 33 |
|------------------------|------|--|---|----------|----|
| Distilled water | | | | . 250 0 | 83 |
| Syrup of althæa | | | | | |
| Tablespoonful every ha | | | | | |

11. AMYL NITRITE.

Three to eight drops inhaled.

Anæsthesia. See CHLOROFORM ANÆSTHESIA (42) and ETHYL BROMIDE (113).

12. ANISOMETROPIA.

It is *impossible to give absolute rules* for the correction of anisometropia. One patient will be comfortable, refraction of both eyes having been completely equalized; another will stand only a partial correction; still another will refuse all glasses capable of lessening the difference in refraction between his two eyes.

Let yourself be led by the habit of the patient, and give preference to lenses that ease the effort at

ANKYLOBLEPHARON—ANTISEPSIS

accommodation most if patient will not accept a full correction of his anisometropia.

13. ANKYLOBLEPHARON.

Surgical treatment.

Antidotes. See poisoning by Atropine (23), Morphine (231), Pilocarpine (251).

14. ANTIFEBRIN, ACETANILID.

| Antifebrin . | | | | | | | | | |
|--------------|------|---|----|---|----|---|-------------|-------|--|
| White sugar | | | | | | | . 0 30 | 5 gr. | |
| One powder. | Take | 3 | to | 5 | po | w | ders a day. | | |

15. ANTIPYRIN.

| a. A | Antipyrii | 1. | | | 0 | 150 to | 1 0 | $7\frac{1}{2}$ gr. t | to 15 gr. |
|------|-----------|-------|-----|--------|-----|--------|-------|----------------------|------------------|
| | Powder | every | two | hours. | Not | more | than | 5 to 6 | powders |
| a da | у. | | | | | | | | |
| b. A | ntipyrii | ı | ٠. | | | | | 10 00 | $2\frac{1}{2}$ 3 |
| 1 | Lumina | £ | | | | | | 0 15 | 91 am |

For hypodermic injections : One Pravaz syringe contains 0 | 50 (7 1-2 gr) antipyrin.

16. ANTISEPSIS AND ASEPSIS.

- a. Operating-room is aired and cleaned with greatest care.
- b. Patient takes a complete bath on the evening before the operation. The whole head is washed with particular care. For cataract operation: Cut off lashes and eyebrows and brush the palpebral margin with sublimate solution 1:2000, or with biniodide of mercury (4 parts to 1000 parts of sterilized olive oil).—During the night, antiseptic dressing (101) of the eye to be operated. On day

of operation, early, purgative; for instance, sufficient quantity Hunyadi Janos water (2 to 4 wine-glasses). After movement: Opium (242 c), in order to prevent stools for several days.—An hour before soap, and sublimate solution 1:1000. Clean with operation the ocular region is cleansed with brush, the greatest care all the folds of the conjunctival sac with 1:5000 sublimate solution; thereupon aseptic dressing (sterilized cotton and bandage), which patient will wear up to the moment of operation.—During operation the field is washed when necessary with a physiological salt solution (6 to 7:1000) which has been previously boiled.

- c. To disinfect the hands of operator and assistants: Wash with (1) Hot water, brush, potassium soap. (2) Alcohol. (3) Sublimate 1:500; dry with sterilized towel, or wear sterilized cotton gloves, which have to be removed when instruments are picked up.
- d. Instruments are boiled in a physiological salt solution; they are not to be put into the solution before it has reached boiling point.—Less reliable proceeding: Instruments remain for 30 to 40 minutes in carbolic acid solution 5:100; oxycyanide of mercury 1:100, or solution of formaldehyde 1:500. Just before operation instruments are placed in sterilized water.—Keep disinfected needles in absolute alcohol (5).
- e. Collyria are sterilized by boiling before each operation.
- f. All materials for dressings (cotton, bandages, gauze, etc.) are subjected to the action of over-

AQUÆ AROMATICÆ-ARNICA

heated steam (110° to 120° Centigrade) in a sterilizer during 30 minutes.

Antisyphilitic Treatment. See Specific Treatment (291).

Aphakia. See under the heading of HYPERMETROPIA (137).

17. AQUÆ AROMATICÆ.

[Do not confound with aromatic spirits.] Rose water, lavender water, fennel water, cherry-laurel water, aniseed water, balm mint water, thyme water.

In the treatment of conjunctivitis one can add these waters indiscriminately to the different collyria in the proportion of one-fifth.

In case of pain or itching, cherry-laurel water is to be preferred.

18. ARISTOL.

| | As a pov Aristol Vaseline | | | | | | | | | | | to 2½3 |
|----|---------------------------------|--|--|---|--|--|--|--|--|---|----|---------|
| | Burns | | | | | | | | | | ±0 | |
| c. | Aristol | | | ٠ | | | | | | 3 | 0 | 45 gr. |
| | Olive oil | | | | | | | | | | | 53 |
| | Lanolin Burns. | | | | | | | | | | | 3 3 2 3 |

19. ARNICA.

a. Pure tineture of arnica.

| | Rub into diseased | p | αr | ts. | | | | | | | |
|----|--------------------|---|------------|-----|--|--|--|--|--|--------|----|
| b. | Tineture of arnica | | | | | | | | | 20 0 | 53 |
| | Distilled water . | | | | | | | | | 150 0 | 53 |
| | As compresses. | | | | | | | | | | |

ARSENIC-ASTIGMATISM

20. ARSENIC.

 a. Fowler's Solution. (1 part arsenic acid, 1 part pure carbonate of potassium to 100 parts solution.)

Begin with 2 drops a day, gradually increase to 14, and decrease the dose again to 2 drops before ceasing.

b. Arsenate of sodium $0 \mid 003 \quad \frac{1}{20} \text{ gr.}$ Extract of gentian $0 \mid 10 \quad 1\frac{1}{2} \text{ gr.}$ Powder of gentian q. s.

To make 1 pill; 3 pills a day.

Asepsis. See Antisepsis and Asepsis (16).

21. ASTHENOPIA, ACCOMMODATIVE.

Correct hypermetropia and astigmatism. Stop overwork and sexual excesses. Gymnastics. Sojourn in the country. Strengthening food, tonics. Hydrotherapy (98). Faradization. Compare also Paresis of Accommodation (1). For muscular asthenopia, see Insufficiency of Convergence (142).

22. ASTIGMATISM.

- a. Regular Astigmatism: After examination with ophthalmoscope or by skiascopy and with keratometer and repeated tests with glasses [if need be under atropine], correct the whole astigmatism with the corresponding cylindrical glass, adding, where necessary, a spherical lens according to rules mentioned. See MYOPIA (234) and HYPERMETROPIA (137).
- b. Irregular Astigmatism: Correct as much as possible by spherical and cylindrical lenses that part of the ametropia which can be corrected. Stenopæic glasses.

ATROPINE

Atrophy of the Eyeball. See Phthisis of the Eyeball (250).

Atrophy of the Optic Nerve. See Optic Nerve (243).

23. ATROPINE.

| -0 | · · · · · · · · · · · · · · · · · · · | |
|------------|--|----------------------------------|
| <i>a</i> . | Neutral sulphate of atropine 0 05 Distilled water | $\frac{5}{6}$ gr. $2\frac{1}{2}$ |
| b | Neutral sulphate of atropine | ½ gr. 3 gr. 143 |
| <i>c</i> . | Neutral sulphate of atropine } āā 0 10 āā | |
| | Muriate of cocaine | 8 gr. 45 |
| d. | Neutral sulphate of atropine 0.03 to 0.010 $\frac{1}{2}$ gr. to White vaseline 1.000 $\frac{1}{2}$ gr. to Put into conjunctival sac. | $1\frac{1}{2}$ gr. |

To get the *greatest possible effect:* Introduce the *pure salt* into the conjunctival sac, taking care to close the lachrymal ducts by pressure.

As a rule, let patient keep eyes closed for 5 minutes after having instilled the mydriatic.

In case of poisoning by Atropine:

a. Absorption per os.

Stomach-pump or hypodermic injections of a solution of hydrochlorate of apomorphine 2: 1000 up to 30 centigrammes (5 grains).

b. Absorption through the tissues (injections). Hypodermic injections of a solution of hydro-

BALSAMUM TRANQUILLANS-BATHS

chlorate of pilocarpine 5:100, repeated as often as necessary up to 60 centigrammes.

In both cases internally:

Brandy, strong coffee, carbonate of ammonia (10 b).

24. BALSAMUM TRANQUILLANS.

Oleum Hyoscyami Compositum.

Rub into skin of forehead and temples or on painful parts. Cover with cotton or oiled silk to prevent grease spots.

Basedow's Disease. See Exophthalmic Goitre (129 A).

25. BATHS, MEDICINAL.

A bath should be from 200 to 300 quarts for an adult; less for children.

There should be an *interval of at least 3 hours after* a meal before taking a bath.

Temperature of bath:

| Cold bath. | | | ٠ | | 10-22 | Centigrade. | (50- 71 F.) |
|------------|--|--|---|--|---------|-------------|-------------|
| Tepid bath | | | | | 23 - 32 | 4.6 | (73- 89 F.) |
| Hot bath . | | | | | 33-40 | 6.6 | (91–104 F.) |

a. Bran bath:

Add to the bath a decoction of 2-4 pounds of wheat bran.

b. Malt bath:

Pour 6 pounds of boiled malt through a sieve and add slowly to bath.

c. Salt bath:

Chloride of sodium, 8 pounds.

| d. Sea Salt bath: |
|--|
| Sea salt |
| Chloride of lime 6 pounds. |
| e. Ferruginous bath: |
| e'. Sulphate of iron } āā 50 0 |
| e''. Iron and potassium tartrate } āā 100 0 3\frac{1}{3} As before. |
| f. Iodine bath: |
| Iodine |
| lodide of potassium |
| Distilled water |
| Dissolve before adding to bath. Wooden bath-tub. |
| g. Sublimate bath: |
| Bichloride of mercury 25 0 63 |
| Chloride of sodium 50 0 13 53 |
| Distilled water |
| For the new-born reduce the dose of sublimate to 0 50; increase it to 1, 2, 3 grammes, etc., for older children. |
| N/ 1' 173 11 11 0 73 11 11 (110) |

Medicinal Foot-baths. See Foot-baths (118). Belladonna. See Atropine (23) and Poultices (255).

Biborate of Soda. See BORAX (29).

Blennorrhæa. See Blennorrhæal Conjunctivitis (69).

26. BLEPHARITIS, CILIARY, SQUA-MOUS.—INFLAMMATION OF CIL-IARY MARGIN OF LID.

Minute cleanliness. Wash with soap and hot water. Pluck out diseased lashes (black roots).—Clean every morning from scales and pellieles with an ointment and a piece of soft linen [cold or tepid potato-starch poultices $(255\,a)$]. Do not let the salve remain on lids too long; wipe off with care. Never apply ointment just before retiring at night.

Pay attention at the same time to any existing conjunctivitis. Watch the normal flow of tears through the natural passages, but avoid slitting the lachrymal ducts unnecessarily.

In case of *scrofula* and *anæmia*: Systemic treatment. Cod-liver oil (54), iron (164), sea bathing with certain restrictions (a well-protected beach without fine sand).

Mornings apply on the margin of the lids one of the following ointments, and let it remain there for one hour:

Yellow oxide of mercury (229 a), red oxide of mercury (229 c), iodoform (148), oxide of zinc (325 b), or, according to the case:

| Salicylic acid . | | | | | | | | | | | | | | 1]0 | | 15 gr. |
|-------------------------------------|---|---|---|---|---|-----|---|---|---|---|---|---|---|------|----|-----------------|
| Oxide of zinc | | | | | | | | | | | | | | 10 0 | | $2\frac{1}{2}3$ |
| Powdered starch | | | | | | | | | | | | | | 15 0 | | 43 |
| Powdered starch Vaseline | | | | | | | | | | | | | | 20 0 |) | 53 |
| | | | | | _ | | | | | | | | | | | |
| C:1111 | | | | | | | | | | | | | | | | |
| Simple lead plaste Linseed oil . | r | ٠ | ٠ | ٠ | ٠ | ٠ | ٠ | ٠ | ٠ | ٠ | 1 | ā | ā | 30 0 | āā | 17 |
| Linseed oil . | | ٠ | | | | | | | | |) | | | | | -0 |
| Balsam of Peru | | | | | | | | | | | | | | 1 0 |) | 15 gr. |
| | | | | | | - ~ | | | | | | | | | | |

BLEPHARITIS

| Red precipitate of mereury } aa 0 15 | āā 2½ gr. |
|---|---------------------|
| Red precipitate of mereury | 2 8 |
| White vaseline \ldots 2000 | $\frac{1}{2}3$ |
| Lanolin | $15 \mathrm{\ gr.}$ |
| | |
| Flowers of sulphur | 45 gr. |
| Hydrochlorate of ammonia 1 0 | 15 gr. |
| Rose water | $1\frac{7}{5}$ 53 |
| Spirits of eamphor | $2\frac{1}{2}3$ |
| | |
| Camphor 0 10 | $1\frac{1}{2}$ gr. |
| Precipitated sulphur | 15 gr. |
| Lime water | 55 91= |
| Rose water | aa 223 |
| Gum arabic 0 20 | 3 gr. |
| For unyielding cases, apply this ointment exceptiona | lly every |
| evening to the border of the closed lids and let it rem | ain until |
| morning. | |
| | |
| White precipitate of mercury 0 03 | $\frac{1}{2}$ gr. |
| Neutral acetate of lead 0 10 | $1\frac{1}{2}$ gr. |
| Oil of sweet almond 0 50 | 8 gtt. |
| Vaseline | 11/3 |
| | -40 |
| Red lead oxide 1 0 | 15 gr. |
| Neutral acetate of lead 3 0 | 45 gr. |
| Lard | 1123 |
| or: | -25 |
| | |
| White wax | āā 5 3 |
| Oil of sweet almond | 0 |
| Oil of roses 3 drops. | 3 gtt. |
| Against itching: Inunction, repeated severa | ltimes |
| a day, with resorcin ointment (260 a), or c | |
| • | arbone |
| acid ointment (249 a), or brushing with: | |
| Neutral acetate of lead | $1\frac{1}{2}$ gr. |
| Hydrochlorate of eocaine | 2½ gr. |
| White vaseline | 45 gr. |
| 13 | 5 |

BLEPHARITIS

Blepharitis, Simple. See CILIARY BLEPHARITIS (26).

27. BLEPHARITIS, ULCEROUS.

In the beginning always try the treatment of simple blepharitis (26).

If there is no improvement: Compresses, with carbolic acid solution (1:100) to detach the crusts. Applications with a thin, pointed pencil of pure nitrate of silver, or with the mitigated pencil $(287 \, b, \, d)$, or with a camel's-hair brush dipped in a 2 per cent. nitrate of silver solution. Wash the ciliary border of lids with glycerin soap, and make careful applications of 75 per cent. acetic acid to the ulcers; thereupon abundant bathing with hot water. *Careful* applications with oil of juniper $(166 \, b)$, pure or with the addition of alcohol.

Where ulcers are *torpid*: Stimulate with tineture of iodine or with:

| Crystallized acetate of zinc | | | | | | 0 40 | 6 gr. |
|------------------------------|--|----|--|---|---|-------|-----------------|
| Glycerin | | | | , | e | 5 00 | $1\frac{1}{4}3$ |
| Cherry-laurel water | | ٠. | | | | 20 00 | 53 |

In unyielding cases: Brush ulcers with a sublimated glycerin solution 1; 30.

Repeat every other day.

Patient brushes border of lids himself with a solution of sublimate in glycerin 1:100, taking care that the solution does not get into the conjunctival sac. After the application: Calomel ointment $(33\ b)$ or:

| Vaseline. Lanolin. | | | | | | | | | | | ٠ | | | | } | āā | 50 |) | 112 | |
|-----------------------|---|---|---|---|---|---|---|---|---|----|---|---|---|---|---|----|----|---|-----|--|
| Lanolin. | ٠ | ٠ | ٠ | ٠ | ٠ | ٠ | ٠ | ٠ | ٠ | | ٠ | ٠ | ٠ | ٠ | j | | ŀ | | 40 | |
| | | | | | | | | | | 14 | | | | | | | | | | |

BLEPHAROPHIMOSIS-BORIC ACID

Should *none* of these treatments *lead* to a *cure*: Cauterization with the galvano-cautery, or: Removal of the ulcerous part of the ciliary border.

28. BLEPHAROPHIMOSIS.

Canthoplasty.

Blepharospasm. See Spasm of the Orbicu-LAR Muscle (289).

Blue Stone, Blue Stick. See COPPER, SULPHATE OF (80 c).

Borate of Soda. See BORAX (29).

29. BORAX.—BORATE OF SODA.—BI-BORATE OF SODA.

| <i>a</i> . | Lavender water Distilled water. | | | | | 30 | 0 | 1). | 5 | 15 | gr. | to 23 gr 13 43 |
|------------|---------------------------------|---|---|---|---|----|---|-----|---|-----|-----|----------------------|
| b. | Borate of coeaine | | | | | | | | | 2 | 0 | ½3 |
| | Lavender water | | | | | | | | ٠ | 50 | 0 | 13 53 |
| | Distilled water . | ٠ | ٠ | ٠ | ٠ | | | | ٠ | 150 | 0 | 53 |

30. BORIC ACID.

| a. | Borie aeid | | | | | | | 20 0 | 53 |
|----|-----------------|--|--|--|--|--|--|-------|-------|
| | Distilled water | | | | | | | 500 0 | 1 pt. |

Calcined magnesia increases solubility of boric acid.

| <i>b</i> . | Borie acid | _ | | | | | 60 | 0 | 23 |
|------------|-------------------|---|--|--|--|--|-----|---|-------|
| | Calcined magnesia | | | | | | 6 | 0 | 11/3 |
| | Distilled water | | | | | | 500 | 0 | 1 pt. |

Boric acid solution, 12 per cent. (will not erystallize in the cold).

| BROMIDES | |
|--|---------------------------|
| d. Boric acid | 4 gr. 143 OUL- |
| 31. BROMIDES. | |
| a. Bromide of potassium | 2½3 13 43 |
| The bromide of potassium can be replaced little larger dose of bromide of sodium or a so what smaller dose of bromide of ammonium, can be combined with the two mentioned salt | ome- or it |
| bromine: | |
| * | 55 gr. 70 gr. |
| | 30 gr. |
| Distilled cherry-laurel water | 43 |
| Simple syrup | $\frac{6\frac{1}{2}3}{3}$ |
| Tablespoonful 2 to 3 times daily. (One tablespoonful | 0 0 |

tains 1 0 of the combined bromine salts.)

Where the patient does not stand the bromine well or where prolonged use is necessary, give after each dose a glass of carbonated water, or replace the above prescription by the following:

| Bromide of p | otassiu | m. | | | | | | 1 | 50 | 24 gr. |
|---------------|---------|-----|--|--|--|--|--|------|----|--------|
| Bromide of so | | | | | | | | | | |
| Bromide of a | mmoni | ium | | | | | | 1 | 00 | 15 gr. |
| Carbonated w | vater | | | | | | | 1000 | 00 | 2 nts |

1 wineglassful 2 to 3 times a day. Avoid calomel applications while patient takes bromides internally!

BUPHTHALMOS—CATARACT

Bromine. See Bromides (31). Burns. See Conjunctiva (57) and Lids (192).

32. BUPHTHALMOS.

Try: Myotics, sclerotomy. -- Refrain from iridectomy.—When troublesome: Enucleation.

Calcareous Infarcts and Concretions. See Conjunctiva (61) and Cornea (82).

33. CALOMEL. — MERCUROUS CHLO-RIDE.—MILD CHLORIDE OF MER-CURY.

| a. | Calomel (by vaporization) | | | | | 00 | 50 | $7\frac{1}{2}$ gr. |
|----|----------------------------|----|-----|-----|-----|-----|----|--------------------|
| | White vaseline | | | | | 10 | 00 | $2\frac{1}{2}$ 3 |
| | Introduce into conjunctive | al | SUC | and | mak | e a | ma | ssage of |
| th | e cornea through the lid. | | | | | | | |

| b. Calomel (by vaporization) | | | | | 1 0 | 15 gr. |
|------------------------------|--|--|--|--|------|------------------|
| White vaseline | | | | | 10 0 | $2\frac{1}{2}$ 3 |
| Apply to border of lids. | | | | | | |

c. Calomel (by vaporization) 6 0 113 In wide-mouthed bottle. Throw on conjunctiva and cornea with camel's-hair brush; massage during one minute, wash

with boric acid solution after 15 minutes to remove powder. Once or twice daily.

d. Internally as a diuretic. . . . 0|05 to 0|1 1 gr. to 2 gr. A powder.

Avoid applying calomel while patient takes iodine or bromine internally!

Carbolic Acid. See PHENOL (249). Castor Oil. See OLEUM RICINI (274).

34. CATARACT.

Surgical treatment [see Antisepsis and Asepsis (16)].—Where not completely ripe or in case of 2

zonular or punctated cataract, try to better vision by the use of mydriatics (233); instil scopolamin (284) in preference, as it can be used a long time without danger.

35. CHALAZION.

Always operate from the conjunctival side. Squeeze out the chalazion or excise on the finger-nail, using pressure of the fingers. [Desmarres' forceps is troublesome, painful, and not necessary.] Cavity should be scraped out with sharp spoon even where simple squeezing seems sufficient.

36. CHARCOAL, POWDERED.

Is added to irritating salves. The best is the charcoal prepared from the poplar-tree, as it releases the salts added to the ointment but slowly. It is sufficient to add 1 part of charcoal to 100 parts of the salve.

Preparation: Pound the charcoal in an iron mortar and pass through a silk sieve after having heated it to red heat during several minutes.

37. CHEMOSIS. — SUBCONJUNCTIVAL ŒDEMA.

Etiological treatment.—Ice-cold compresses.—Canthotomy.—Scarifications.

38. CHERRY-LAUREL WATER.

Is added to different collyria, particularly where there is pain and itching.

CHLORAL HYDRATE—CHLOROFORM

| 39. CHLORAL HYDRATE. |
|--|
| a. As a sedatire 0 10 to 0 50 1 12 gr. to 8 gr. |
| b. As a narcotic 2 00 to 3 00 30 gr. to 45 gr. |
| c. Chloral hydrate 5 0 75 gr. |
| Syrup of orange peel $\dots \dots 30 0$ $1\frac{\pi}{3}$ |
| Distilled water 60 0 2\frac{3}{2} 1 to 2 tablespoonfuls before going to bed. |
| To heighten the narcotic effect: |
| d. Chloral hydrate |
| d. Chloral hydrate |
| Syrup of codeine |
| Distilled water |
| Hypodermic injection: |
| |
| e Chloral hydrate |
| Distilled water $1000000000000000000000000000000000000$ |
| 1 syringeful contains $0 \mid 02 \mid \frac{1}{3} \mid gr.$) of chloral hydrate and |
| 0 01 (\frac{1}{6} gr.) of morphine. |
| 40. CHLORATE OF POTASSIUM. |
| Chlorate of potassium $10 0$ $2\frac{1}{2}$ |
| Distilled water |
| Mouth wash; also brush teeth with solution during mercurial treatment. |
| 41. CHLOROFORM. |
| a. Chloroform |
| White wax |
| Lard |
| Inunctions against superficial extra-ocular pains. |
| b. Chloroform 20 0 to 30 0 53 to 13 |
| Olive oil |
| Inunctions. |

42. CHLOROFORM ANÆSTHESIA.

Pure chloroform poured on a sheet of white paper will produce the same sweet odor until totally evaporated, and leaves the paper absolutely dry, white, and odorless.

20 minutes *before narcosis*: Injection of 1 or $1\frac{1}{2}$ syringefuls of:

| Muriate of morphine | | | | | | |
|------------------------------|--|--|--|--|-------|-------------------|
| Neutral sulphate of atropine | | | | | 00 02 | $\frac{1}{3}$ gr. |
| Distilled water | | | | | 20 00 | 53 |

1 syringeful contains 0\01 ($\frac{1}{6}$ gr.) of morphine and 0\001 ($\frac{1}{60}$ gr.) atropine.

5 minutes before narcosis: Apply a 5 per cent. cocaine solution to the mucous membrane of nose and pharynx.

For very anæmic individuals add several drops of amyl nitrate to the chloroform.

[10 drops to $50 \mid 0 \ (1\mbox{\em 3}\ 5\mbox{\em 3})$ of chloroform.]

For patients with heart trouble, where narcosis is indispensable, replace chloroform by ether; give large doses of digitalis (96) several days before the operation, and let an injection of $0|001(\frac{1}{60} \text{ gr.}))$ of strophanthin take the place of the morphine and atropine injection.

After narcosis cover face of patient for about 3 hours with a compress soaked in vinegar; renew it frequently.

Choroid, Detachment of the. See Detachment of the Retina (265).

Choroid, Hemorrhage of the. Sec Hemorrhage of the Retina (266).

43. CHOROID, LESION OF THE.

Minute antisepsis; rest; ice.—Remove foreign bodies where indicated by means of the electromagnet forceps, hook, or by aspiration.

Compare also Penetrating Wounds of the Sclera (282).

44. CHOROID, RUPTURE OF THE.

In fresh cases absolute rest.—Antiphlogistic measures.

45. CHOROID, TUBERCULI OF THE.

Enucleation in ease diagnosis is absolutely positive.

46. CHOROID, TUMORS OF THE.

Tumors of the choroid are all malignant. Enucleation or exenteration of the orbit, according to extent of the tumor.

47. CHOROIDITIS, Plastic, Exudative, Disseminate, Areolar.—CHORIO-RETINITIS.—SCLERO-CHOROIDITIS.

In the acute stage: Leeches (186) to the temple and to the mastoid process, or Heurteloup's artificial leech (30 | 0 to 60 | 0 [1\bar{3} to 2\bar{3}] of blood), or dry leeches, according to the patient's strength.—Absolute rest and darkness for 36 hours after bloodletting.—Derivation to skin and digestive tract.—Poultices (255); repeated hot compresses.—Mydriatics (233) as long as patient remains in darkened room; later, smoked glasses.

Methodical sweating (305); medicinal foot-baths (118).—Massage of the eyeball.—Repeated paracentesis of the auterior chamber.

When patient is anamic: Strengthening diet. In case of syphilis: Specific treatment (291).

48. CHOROIDITIS, Suppurative, Metastatic, Purulent.

In the *beginning*: Compresses with iced water; mydriatics (233); antiphlogosis.

Where *suppuration* has begun: Hot compresses or poultices (255). Narcotics, and where the pain is great: Hypodermic injections of morphine (231 *e*) at temples.

No indigestible food.—Extraction of the swollen or dislocated lens.—Lengthy incision of the cornea or sclera to give vent to pus.—Exenteration (afterwards disinfection with sublimate solution 1:1000). Enucleation during remission of pain.

When suppurative choroiditis runs its course without acute inflammatory symptoms, as in young children, special treatment is not required. Simple hygienic rules generally suffice to hinder the suppuration from invading the whole eyeball.

49. CILIARY BODY, FOREIGN BODY OF THE.

Where extraction is impossible: Antiseptic (101) and antiphlogistic dressing and treatment. Should inflammation and symptoms of irritation of uveal tract increase: Enucleation or evisceration of the globe of the eye.

50. CILIARY BODY, MELANOSARCOMA OF THE.

Enucleation.

| 13ittolection. | |
|---|--------------------------------------|
| 51. CITRIC ACID. Citric acid | $\frac{2\frac{1}{2}3}{5\frac{3}{2}}$ |
| 52. COCAINE. | |
| a. Muriate of cocaine | 3 gr. 2½3 |
| b. Muriate of cocaine | 3 gr. 2½3 |
| Hypodermic injections of cocaine may be us lid operations, tenotomy, even in advanceme the muscles and enucleation. | |
| c. Muriate of cocaine | 53 |
| d. Muriate of cocaine | 53 s 0 04 |
| 53. CODEINE. | |
| Phosphate of codeine 0 01 to 0 2 \frac{1}{6} gr. t | o 3 gr. |
| Subnitrate of bismuth } aā 0 50 ai | a 8 gr. |

54. COD-LIVER OIL.

In spoonfuls, large or small, according to age. Where there is fever and gastric trouble, cod-liver oil is not indicated.

The *light-yellow oil is the best*, extracted by an almost cold process, heat not having altered the active principles of the livers (iodine, chlorine, bromine, etc.), which are very volatile.—The light-brown oil is less active than the light-yellow, but is preferable to the dark-brown oil.

Should stomach revolt: Take often in small quantities, as:

For children, use can be made of the aromatized cod-liver oil.

b. Cod-liver oil 500 0 1 pt.
Oil of cinnamon 15 drops 15 gtt.

For scrofula: Combine the cod-liver oil with extract of malt and iodide of iron.

| c. | Extract of ma | lt . | | | | | | | | 1000 | 00 | 2 pts. |
|----|-----------------|------|-----|---|----|----|--|--|--|------|----|---------|
| | Cod-liver oil . | | | | | | | | | 500 | 00 | 1 pt. |
| | Gum arabic | | | | | | | | | 100 | 00 | 3 7 2 3 |
| | Powdered trag | gaca | nt | h | | | | | | 5 | 00 | 143 |
| | Glycerin | | | | | | | | | 50 | 00 | 13 53 |
| | Vanillin | | | | | | | | | 00 | 50 | 8 gr. |
| | Iodide of iron | | | | | | | | | | 00 | 43 |
| | 1 to 2 teaspoo | onfu | ils | α | da | w. | | | | | | -, |

55. COLLYRIUM, YELLOW ASTRIN-GENT.

| Chlorate of ammonium | | | | | | | 00 | 50 | 8 gr. |
|-----------------------|----|------|-----|--|--|--|-----|----|---------------------------|
| Sulphate of zinc | | | | | | | 1 | 25 | 19 gr. |
| Distilled water | | | | | | | 200 | 00 | $6\frac{1}{2}\frac{7}{5}$ |
| Camphor | | | | | | | 00 | 40 | 6 gr. |
| 70 per cent. alcohol | | | | | | | 20 | 00 | 53 |
| Crocus | | | | | | | 00 | 10 | $1\frac{1}{2}$ gr. |
| Macerate 24 hours and | lf | ilte | er. | | | | | | |

Compresses of Subacetate of Lead. See LEAD (185 c).

56. CONIUM.

| Powdered | conium leaves | | | · | | 2010 | 53 |
|----------|---------------|--|--|---|--|------|-------|
| Lard | | | | | | 50 0 | 13 53 |

Heat on water-bath for at least half an hour; rub on skin of forehead and temples; acute pains of iritis.

See also Poultices (255 e, f).

57. CONJUNCTIVA, BURNS OF THE.

Quick elimination of the caustic agents. In case of burns with ehemicals, wash with

- a. Oil or milk (quicklime).
- b. Acidulated water (caustic bases).

 Teaspoonful of vinegar to a glass of water.
- c. Lime water, or bicarbonate of sodium or of potassium (acids). Teaspoonful in a glass of water.

Remove scabs. Apply lukewarm 3 per cent. boric acid compresses.

To avoid formation of adhesions: Instil 2 to 4 drops of sterilized oil into the conjunctival sac until complete cure is effected, and pass a probe between the

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lids and the globe of the eye every day.—Later: Calomel ointment (33 a) or boric acid ointment (30 d).

58. CONJUNCTIVA, CYSTICERCUS OF THE.

Extraction after incision of the mucous membrane covering the parasite.

59. CONJUNCTIVA, HEMORRHAGE OF THE. — SUBCONJUNCTIVAL ECCHYMOSIS.

Compression.—Compresses with subacetate of lead solution.

Avoid straining, coughing, vomiting, etc.

In old people, inform family of a possible cerebral apoplexy.

60. CONJUNCTIVA, HYPERÆMIA OF THE.

Treat as chronic conjunctivitis (70).

61. CONJUNCTIVA, LITHIASIS OF THE. —CALCAREOUS INFARCTION OF MEIBOM'S GLANDS.

Incision of the mucous membrane following the course of the gland; remove the concretions with a small curette or knife.

62. CONJUNCTIVA, LUPUS OF THE.

General tonic treatment [iron (164), arsenic (20)]. Applications of tincture of iodine with a camel's-

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hair brush or small pledget of cotton.—Excision of diseased parts. Scrape with sharp spoon.—Thermo-eautery.

63. CONJUNCTIVA, TRAUMATISM OF THE.

Remove foreign bodies.—Sew very earefully.—Antiseptic bandage (101) to be worn several days.

64. CONJUNCTIVA, TUBERCULOSIS OF THE.

According to extent: Excision or eauterization. Symptomatic treatment.

65. CONJUNCTIVA, BENIGNANT TU-MORS OF THE.

[Fibromata, Lipomata, Cysts, Dermoid Tumors, Erectile Tumors.]

Excision; sew, having eare to sacrifice the mucous membrane only as far as is strictly necessary.

66. CONJUNCTIVA, MALIGNANT TU-MORS OF THE.

[Epithelioma, Sarcoma, Lepra.]

Where tumor is not too large and where conjunctiva alone is involved: Remove it. As a rule, a plastic operation will be necessary to avoid symblepharon.

Where the eyeball is involved, enucleation or exenteration may be indicated.

67. CONJUNCTIVA, XEROSIS OF THE.

Better the state of the general health. Wash frequently with biborate of soda (29). Instil milk or fresh oil.

68. CONJUNCTIVITIS.

General rules: Use lukewarm collyria. Do not content yourself with simple instillations, but turn the lids and brush them.—Between treatments patient is told to wash out and bathe his eyes, using absorbent cotton and an eye-cup.—Dry eyes after applications, and avoid going out immediately afterwards.

One can add to the collyria diverse *aqueous* (never alcoholic) aromatic solutions. Cherry-laurel water seems to be slightly soothing.

69. CONJUNCTIVITIS, BLENNOR-RHŒAL.—OPHTHALMIA OF THE NEW-BORN.

Prophylaxis: Where we find a suspicious white flow: Antiseptic vaginal injections before confinement.—In all children (mother having white flow), without exception, immediately after birth and before bath: Abundant washing of the lids and the surroundings of the eye with a 1:2000 sublimate solution and instillation of one drop of a nitrate of silver solution (2 per cent.).

Where one eye alone is infected protect the other by a watch-glass hermetically laid on, or, better, by an antiseptic dressing, covered by a layer of collo-

dion adhering to the skin.—Tie the hands of the new-born.

Inform the mother, nurses, and all persons that come near the child of the danger of contagion.—Have the linen of the child carefully laid aside, as well as all dressings. Burn cotton used for washing the eyes. Wash your hands after each dressing with soap, brush, and sublimate 1:1000.

As long as the swelling lasts: Iced sublimate compresses (1:5000); remove every trace of pus earefully and regularly. To avoid borders of lids getting glued together, put between them a little vaseline ointment, with peroxide of hydrogen $(135\ b)$, or some of the following ointment:

| White wax | | | | | | | | | | | 3,0 | 45 gr. |
|--------------|----|----|----|---|--|---|--|--|--|--|------|--------|
| Spermaceti | | | | | | | | | | | 20 | 30 gr. |
| Oil of sweet | 21 | lm | on | d | | ٠ | | | | | 15 0 | 43 |

If necessary: Searifications, followed by energetic sublimate washes (1:500).—Blepharorrhaphy.—Leeches (186) at the external angle of the eye and at the root of the nose.—Where the swelling is very tenacious: Continual irrigation with permanganate of potassium (1:2000).—Wash the everted lids twice a day abundantly with a solution of a-naphtol (0.4:1000).

As soon as swelling and false membranes have disappeared: Cauterize with formaldehyde (1:500 to 1:300) or with nitrate of silver (2:100). Repeat daily. [Before using nitrate of silver or formaldehyde solution, clean the whole conjunctival surface very carefully with sublimate (1:5000), or, better, with an alumnol solution (4:100), which forms

with the pus a white precipitate that is very easily removed.]—Linear cauterization of the conjunctival sac with the mitigated pencil (287 b, d). Immediately afterwards neutralize with a salt solution. Do not cauterize again before the scab has fallen off.—Large granulations should be removed with seissors or cauterized with the unmitigated pencil (287 b).

In unyielding cases: Replace the nitrate of silver by pure perchloride of hydrogen, or by the iodide of silver in statu nascendi, which is obtained by instilling two drops of the following solution:

| I. | Iodide of potas | siı | $_{ m im}$ | | ٠ | | | | | | ٠ | | | | 2 3 | 0 | 35 | gr. |
|-----|-----------------|-----|------------|----|----|----|---|----|--------------|---|---|----|---|----|-----|-----|-----|-----|
| | Distilled water | | | | | | | | | | | | | | 3 5 | 0 | 53 | gr. |
| | Pure glycerin | | | | | | | | | | | | | | 6 5 | 0 1 | 00 | gr. |
| and | immediatel | У | af | te | rv | va | r | ls | \mathbf{t} | w | 0 | dı | 0 | ps | of | the | e f | ol- |
| low | ing solution | | | | | | | | | | | | | | | | | |

 II. Crystallized nitrate of silver
 3 | 50 | 53 gr.

 Distilled water
 3 | 50 | 53 gr.

 Pure glycerin
 6 | 50 | 100 gr.

or try: Daily energetic massage of the whole conjunctiva with calomel.

Should there be any *complication* from the *cornea*: Avoid extra- as well as intra-ocular pressure: Eserine (111) or pilocarpine (251 a). [Atropine (23) only in ease of central ulcer.]

Besides these therapeutic means, which the physician uses himself, continual care should be given to the child by nurses remaining with it day and night. The nurse will wash the eyes whenever there is the slightest trace of secretion. [Washes with sublimate (1:10,000), or salicylate of mercury (1:5000), or hydrochinone (2:100).]

All suppuration having ceased, physician uses boric acid (4:100), or a 1:200 solution of ammoniated sulphichthyol.—At home an astringent collyrium is used.—Strengthening diet. Act lightly on stools.—Pure air.—High pillow.

70. CONJUNCTIVITIS, CHRONIC.— CHRONIC CATARRH OF THE CONJUNCTIVA.

Keep bowels loose.—Pure fresh air.—Exercise. —Footbaths (118).—Change of climate.—Cold (98 a) or Scotch douches (98 b).

Avoid: Constipation, liquor, coffce, strong wine, heavy meals, smoke and dust, tiring of eyes, late hours, insomnia (140), but also sleeping too long.

Protection from dust, wind, and strong light by: Coquille lenses, blue or smoked, or veil.

Prohibit caustics and irritating collyria. Brush or douche with any of the following solutions: Borate of soda (29), boric acid (30 a), yellow astringent collyrium (55), sulphate of zine (325 a), sulphate of copper (80 a) [for physician to use], tannic acid (310 a), or with:

| Salieylic acid | | | | ٠ | | | | | | 3 | 0 | 45 gr. |
|--|--|---|---|---|---|----|------|-----|-----|-----|------------------|----------------------|
| Biborate of sodium | | | | | | | | | | 1 | 0 | 15 gr. |
| Distilled water | | | | | | | | | | | | 1 pt. |
| or: | | | | | | | | | | | | |
| Sulphate of copper. Crystallized alum. | | } | ā | ā | 0 | 0: | 2 to | 0 0 | 0 | 1 | 1 gr. | to $\frac{2}{3}$ gr. |
| Distilled water | | | | | | | | 12 | 0 |) | 33 | |
| Tincture of opium. | | | | | | | | 0 | 20 |) | 3 gr. | |
| Glycerin | | | | | | | | 2 | 100 |) { | 30 gr. | |

Eye-douches (99) with thymol (1:2000) or benzoate of sodium (3:100).

For *itching*: Instillations of cocaine ($\frac{1}{2}$ per cent.) and frequent eye-douches with cherry-laurel water.

In case of beginning excoriations: oxide of zinc $(325 \ b)$ or white precipitate $(229 \ d)$ ointment.

To obviate an ectropium: Patient should dry lids, wiping from below upward.

Pull out diseased lashes. Squeeze out Meibomian glands. See that lachrymal ducts are permeable.

Nasal douches (100) or more energetic treatment of coexisting rhinitis (273).

Should the conjunctivitis resist all above means of treatment: Repeated abrasions of the epithelial layer of the palpebral conjunctiva with a Desmarres scarificator or any convex scalpel.

71. CONJUNCTIVITIS, CROUPOUS.— PSEUDO-MEMBRANOUS CON-JUNCTIVITIS.

Bacteriologic examinations of the false membranes. For ordinary cases: No caustics. Alternating hot and cold compresses moistened with boric acid (3:100), carbolic acid (3:1000), or permanganate of potassium (1:4000). Eye-douches with benzoate of sodium (2 to 4:100).

In tenacious cases: Remove false membranes and touch up conjunctiva with sublimate (1:300) or with nitrate of silver (2:100). At the same time vaporize lime water near bed of patient.

In severe forms with fibrinous exudation: Local treatment of true diphtheritic conjunctivitis (72).

72. CONJUNCTIVITIS, TRUE DIPHTHE-RITIC.

Vigorous *prophylaxis*. Take all children out of patient's room.—Avoid contact of diphtheritic membranes with mucous membranes.

Antitoxin injection.—Strengthening food. Tonics.—Where necessary, light purgative.—Internally, chloride of iron, 6 drops daily, in milk, or:

| Benzoate of sodium | | | | | | | | | 10[0 | $\frac{21}{2}3$ |
|---------------------|----|-----|-----|-----|-----|-----|--|--|-------|-----------------|
| Syrup of turpentine | | | | | | | | | 390 0 | 1213 |
| Tablespoonful ever | 71 | 17. | ree | · 7 | 021 | 2.8 | | | | |

Where one eye alone is attacked: Protect the other [see blennorrheal conjunctivitis (69)].

Never eauterize in stage of fibrinous infiltration.

Where we find considerable swelling and sharp pains: Energetic antiphlogistic treatment [leeches (186) at root of nose and external angle of eye.] No scarification of the conjunctiva! [Hardly any blood would flow and the deep tissue would be exposed to the danger of diphtheritic infiltration.]—Carefully apply iced compresses [circulation being poor there is always danger of necrosis setting in].

As soon as the *swelling subsides*: Replace ice by *hot compresses* to loosen the fibrinous exudation and to hasten absorption. Moisten these compresses with a non-irritating disinfectant: Sublimate 1: 10,000, permanganate of potassium 1:4000, ben-

-33

zoate of sodium 2:100. Clean eye frequently and carefully.—Vaporize lime water or the following solution near bed of patient:

| Rectified oil of Tincture of e | of tur | pent | tin | Э | | | | } | āā | 4 | 0 | āā 1z |
|-----------------------------------|--------|------|-----|---|--|--|--|---|------|-----|---|--------|
| Tincture of e | ucaly | ptus | | | | | | } | | | | U |
| Alcohol | | ٠. | | | | | | | . : | 300 | 0 | 103 |
| Distilled water | er - | | | | | | | | . 10 | 000 | 0 | 2 pts. |

Rub parts covered with false membranes twice daily with a solution of sublimate in glycerin (1:100) [wash afterwards with salt water], with lemon-juice, with boric acid $(30\ b)$, with a solution of chloral 1:30 [remove one minute after application with hot water], or with trypsin 10:100.

Suppurative stage: Treatment analogous to that of blennorrheal conjunctivitis (69).—Watch corneal complications (175, 176).

Cicatricial stage: Do not use caustics, and ward off adhesions of the conjunctiva of the lids and the ball of the eye by inserting a probe between the eyeball and the lids daily, and instilling milk, glycerin, or oil into the conjunctival sac.

73. CONJUNCTIVITIS, FOLLICULAR.

Systemic treatment.—Change of climate.—Diet analogous to that of simple conjunctivitis (78). Subacetate of lead (1 to 2:100), boric acid (4:100), nitrate of silver (1:100) [applied only by the physician].—Alum pencil (6 b).—Massage with pulverized boric acid (30 c).—Smoked glasses.—Nasal douches (100).

74. CONJUNCTIVITIS, GONORRHŒAL, OF ADULTS.

Treatment analogous to that of ophthalmia of the new-born (69), but more vigorous.

75. CONJUNCTIVITIS, GRANULAR.— TRACHOMATOUS CONJUNCTIVITIS.—TRACHOMA.

Rub conjunctiva in its full extent with small pledgets of cotton soaked in the following solution:

| Bichloride of mercury | | , | | | | | 0 50 | 8 gr. |
|-----------------------|----|----|-----|-----|------|--|---------|-----------|
| Chloride of soda | | | | | | | 7 00 | 13 45 gr. |
| Distilled water | | | | | | | 1000 00 | 2 pts. |
| Repeat rubbing once | or | tu | ice | e a | day. | | · | · |

Massage of the conjunctiva with boric acid in impalpable powder (30 e) or with powdered calomel (33 e). Afterwards wash with sublimate (1:500).—Squeeze out granulations with roller forceps.—Scarifications parallel with border of lid.—Cauterizations with sulphate of copper pencil (80 e) or with alum pencil (6 b).—Brush with a saturated solution of acetate of lead in glycerin.—Cauterize conjunctiva 3 to 4 times a day with chloride of zinc (1 to 2:100), not neutralizing afterwards.—Anoint the palpebral conjunctiva with the following glycerole:

| Sulphate of copper | | | | | | | 0 | 20 | 3 gr. |
|--------------------|--|--|--|--|--|--|---|----|--------|
| Glycerin ointment | | | | | | | 5 | 00 | 75 gr. |

Where the secretion is great: Cauterize with nitrate of silver (2:100).

In unyielding cases, laceration of the mucous membrane with a metallic brush.—Remove excrescences. Excision of the fold of transmission.—Cauterize repeatedly with the galvano-cautery. [In the intervals: Massage with iodol vaseline 10:100.]—Electrolysis [30 m. a. until quite a little foam has formed; previous to this, incisions into the palperbral conjunctiva].

In desperate cases: Transplantation of conjunctiva or of mucous membrane of the oral cavity.

Abundant washes at home with sublimate 1: 5000 or sulphate of copper (80 α).

Vary the treatments, combine them, adapt to each special case.

Have these two important rules in your mind always:

- I. Turn the upper lid well, using, when necessary, torsion forceps, and treat the upper conjunctival sac in its whole extent, the corners included, the internal and external angles being the principal seat of the granulations.
- II. Never cause a loss of conjunctival or subconjunctival tissue. Limit yourself to achieve a modification of tissue.

Treatment of trachomatous pannus: Direct massage of the cornea with boric acid finely pulverized (30 c) or with aristol.—Peritomy or careful galvano-cauterization of the limbus.—Repeated abrasion of the epithelial layer of palpebral conjunctiva with a Desmarres scarificator or a lance with blunt point.—Where pannus does not yield: Try careful application of a maceration of old jequirity

seeds (165) three times a day until considerable secretion and swelling have been produced.

Treatment of *complications*: Ulcers of the cornea (176) [do not scrape], complications from lachrymal apparatus (91, 180, 181), ectropion (103), or entropion (106), distichiasis (97), symblepharon (306).

Systemic treatment: Change of air, country life. —Good nourishment.—Avoid congestions.—Tonies [iron (164), iodine (147 b), arsenic (20)].—Medicinal baths (25 c, d, e).

Conjunctivitis, Phlyctenular. See Phlyctenular Keratitis (173).

76. CONJUNCTIVITIS PRODUCED BY ATROPINE.

Examine collyrium as to its being sterilized.—Where necessary replace atropine by duboisine (102) or scopolamin (284).—Eye-douche with non-irritating collyria [see simple conjunctivitis (78)].

77. CONJUNCTIVITIS, PURULENT (not blennorrhœal).

Sublimate (1:500), formalin (119), or pure peroxide of hydrogen (135). Applications to be made by the physician.

At home: Sublimate (1:5000).

Where swelling is great: Iced compresses.

As soon as suppuration has ceased: Treat as simple conjunctivitis (78).

78. CONJUNCTIVITIS, SIMPLE, Catarrhal. —CATARRH OF CONJUNCTIVA.

Keep bowels loose.—Avoid bad air, smoke (above all, tobacco smoke), radiating heat, congestions to the head, all work tiring the eyes.

Smoked glasses.—Examine conjunctiva for foreign bodies; remove them.

Brush conjunctiva, douche the eye and wash with one of the following collyria: Boric acid (30 a), biborate of sodium (29), yellow astringent collyrium (55), sulphate of zinc (325 a), subacetate of lead (185 a).

For *pain*: Add to the collyrium some drops of tincture of opium or try a combination of boric acid and cocaine, as follows:

| Boric acid | | | | | | | 5 0 | 75 gr. |
|---------------------|--|--|--|---|--|--|-------|--------|
| Muriate of cocaine | | | | | | | 1 0 | 15 gr. |
| Distilled water | | | | | | | 125 0 | 43 |
| Cherry-laurel water | | | | ٠ | | | 25 0 | 61 3 |

Should there be considerable *swelling* of the lids: Compresses with subacetate of lead solution (185 d) or iced water.

In unyielding cases: Brush the palpebral conjunctiva every other day with a solution of nitrate of silver (0[5 to 1:100), provided there is much secretion. Where, however, there is no or hardly any secretion but swelling of the follicles: Careful cauterization with the blue pencil (80 $e^{\prime\prime\prime}$) [in sensitive patients pulverized calomel stops pain promptly].

As a general rule, repeated use of a weak remedy is to be preferred to the application of a strong one.

CONJUNCTIVITIS—COPPER

Watch the border of the lids. See BLEPHARITIS (26).

Where necessary: Reopen lachrymal passages by simple probing.

79. CONJUNCTIVITIS, VERNAL.—VERNAL CATARRH.

As a rule: No irritants, no astringents. Washes and compresses of carbolized water (1:500), or salicylic acid (1:200), or boric acid (2:100).—Massage with calomel ointment $(33\ a)$ or cocaine ointment $(52\ b)$.

Exceptionally, where there is no improvement by above treatment: Instillations of acetic acid (1:100) four times a day. Where there is considerable proliferation of conjunctival tissue: Excision of the hypertrophied parts on the level of the conjunctiva and the corneal limbus. Galvano-cautery.

Glasses to protect the eyes.—Hygienic diet.— Change of climate.

80. COPPER, SULPHATE OF.

| a. | Sulphate of copper . | | | | | | 016 | 50 | 8 gr. |
|----|----------------------|--|--|--|--|--|-----|----|-------|
| | Rose water | | | | | | 50 | 00 | 13 53 |
| | Distilled water | | | | | | 150 | 00 | 53 |
| | Dissolve and filter. | | | | | | | | |

- c. Crystallized sulphate of copper.
- c'. Pure erystal = unmitigated blue stick.
- c''. Sulphate of copper } Equal parts = mitigated Nitrate of potassium . . . } blue stick.

CORNEA

81. CORNEA, ABSCESS OF THE.

Treat as infected ulcer (176).—Prevent spontaneous perforation by puncture with cautery.

Cornea, Burns of the. See Burns of the Conjunctiva (57).

82. CORNEA, CALCAREOUS CONCRETIONS OF THE.

Remove with sharp spoon or small gouge. Antiseptic bandage.

83. CORNEA, FISTULA OF THE.

Freshen up edges. Eserine (111) or atropine (23 a), according to seat of fistula (peripheral or central). Antiseptic pressure bandage (101).

84. CORNEA, FOREIGN BODY OF THE.

On anterior surface of cornea: Try in all cases to remove with brush. Where unsuccessful with brush try Daviel's spoon. Exceptionally: Cauterize carefully with galvano-cautery, and try several days later to remove the foreign body with the scab.

Where foreign body penetrates deeply into the *corneal tissue*: Introduce cataract-needle behind it and remove.

Where foreign body has penetrated into anterior chamber: Paracentesis and extraction with iridectomy forceps or with the magnet.

Where foreign body has penetrated into the *tissue* of the *iris*: Iridectomy.

85. CORNEA, HERPES OF THE.—HER-PETIC KERATITIS.

Dry aseptic bandage. Boric acid ointment (30 d). In unyielding cases: Destroy the vesicles by massage, with a sufficient quantity of powdered calomel. Thereupon treatment analogous to that of ulcerous keratitis (176).

For pain: Instillations of cocaine (52 a) and injections of morphine (231 c) into the preauricular region.

86. CORNEA, LESIONS OF THE.

Remove foreign body. In perforating wounds: Eserine (111) where perforation is peripheral; atropine (23 a) where it is central.

Iris having prolapsed: Ablation with scissors or destruction with galvano-cautery of the herniated part. *Strict antisepsis*, sublimate (1:5000) dressing.

87. CORNEA, LEUCOMA OF THE.—FILM OF THE CORNEA.—NEPHELION.

According to time of subsistence and age of individual: Calomel ointment (33 a), red precipitate ointment (229 c), yellow oxide ointment (229 b), or blue ointment:

| ** 11 | | | |
|-----------------|------|------|--------|
| Yellow vaseline | | . 20 | 30 gr |
| Lanolin | | . 10 | 15 gr. |

[Blue ointment alone is too great an irritant.]

Direct steaming of the anæsthetized cornea. Insufflation of calomel $(33 \ c)$ or boric acid $(30 \ c)$, followed by massage.

Try: *Electrolysis*, 3 to 4 m. a., until foam forms upon the surface of the cornea. Duration of application, $\frac{1}{2}$ to 2 minutes once a week. Or direct galvanization for several weeks daily 1 to 3 minutes; $\frac{1}{2}$ to $1\frac{1}{2}$ m. a., just as patient tolerates it.

Or yet (but only in fresh cases): Subconjunctival injections of tepid salt water [salt, 1|0 to 3|0 (15 gr. to 45 gr.); sterilized water, 30|0 ($1\overline{3}$)] near the corneal border; whereupon massage and pressure bandage. Or use:

| Sulphate of cadmium | | | | | | | | | | | | 0 05 | <u>5</u> gr. |
|---------------------|----|----|-----|----|----|----|----|-----|-----|---|------------|------|--------------------|
| Distilled water | | | | | | | | | | | | | |
| Gum arabic | | | | | | | | | | | | 2 00 | 30 gr. |
| Extract of opium | | | | | | | | | | | | 0 10 | $1\frac{1}{2}$ gr. |
| Apply with a brush | to | ce | nti | re | of | ti | he | lei | ico | m | α . | | |

Where vision is bettered by mydriasis: *Iridectomy*. The place of this iridectomy and its size will vary with the situation and extent of the leucoma.

Tattooing with india-ink in antiseptic solution.

Abrasion where there are calcareous incrustations or deposits of metallic salts (acetate of lead, nitrate of silver).

For fresh corneal opacities produced by slaked lime: Instillation of a sugar solution, which changes the lime into a soluble saccharate.

Vision in irregular astigmatism is bettered with stenopæic glasses. See, furthermore, Nos. 22 b and 177.

88. CORNEA, ADHERENT LEUCOMA OF THE.

Iridectomy, to better vision and to combat inflammation. Careful tattooing.

89. CORNEA, TUMORS OF THE.

Remove them. Antiseptic bandage.

Larger malignant tumors: Enucleation.

Cornea, Ulcer of the. See ULCEROUS KERATITIS (176).

90. CYCLITIS.—IRIDOCYCLITIS.

Rest, atropine (23 a), poultices (255), diaphoresis (305), purgatives, smoked glasses.—For the pain: Morphine (231 c), strengthening treatment, iron (164) and iodine (147) preparations.—In case of synechiae: Iridectomy as soon as inflammation has subsided.

Cysticercus. See Cysticercus of Conjunctiva (58) and C. of Vitreous (319).

Dacryocystitis, Acute. See Purulent Dacryocystitis (92).

91. DACRYOCYSTITIS, CHRONIC.

Squeeze out contents of lachrymal sac, make an injection and see whether the liquid escapes through the nose. If not, dilate lachrymal canaliculi with a conical probe, and introduce into the nasal canal an olive button probe.—Where there is a stricture: Split one of the canaliculi (the upper one in preference).

DACRYOCYSTITIS

Methodical probing.—Where there is total obstruction of the nasal canal open a passage by force with Weber's knife.

Each probing is to be followed by an injection of boric acid (4:100), or sublimate (1:3000), or permanganate of potassium (1:1000), or with one of the following solutions:

| Borie acid | ۰ | | ٠ | ٠ | ٠ | ٠ | ٠ | 6 | ٠ | | ٠ | ٠ | | 10 | 00 | $\frac{21}{25}$ |
|-------------------------------|-----|---|---|--------|---|---|----|---|----|-----|------|-----|----|-----|----------------|----------------------|
| Salicylic acid . | | | | | | | | | | | | | | 2 | 50 | 38 gr. |
| Distilled water | | | | | | | | | | | | | | 500 | 00 | 1 pt. |
| | | | | ****** | | _ | | _ | _ | _ | | | | | | _ |
| Triturated iodofe | ori | n | | | | | | | 10 | 010 |) to | 5 2 | 25 | 0 | $2\frac{1}{2}$ | 3 to 6½3 |
| Glycerin . | | | | | |) | | | | | | | | | | |
| Glycerin . Distilled water | | | | | | } | āā | l | | | | 4 | 10 | U | aa | $13^{2\frac{1}{2}}3$ |
| Shales solution | | | | | | | | | | | | | | | | |

Shake solution before each injection.

Where dacryocystitis resists all these forms of treatment, or where patient has but a few days to spare for treatment: Perform a *curettage* of the lachrymal sac and naso-lachrymal canal with a small curved sharp fenestrated spoon.

Where the lachrymal sac is much dilated: Partial resection of the anterior wall of the sac.

Where coexisting fistula of the lachrymal sac does not disappear with the re-establishment of the lachrymal passages: Use of galvano-cautery or excision of the membrane lining the fistulous duct and careful suture of the margins of the wound.

Coexisting conjunctivitis (70, 75, 78), rhinitis (273), syphilis (291), or tuberculosis requires special treatment.

92. DACRYOCYSTITIS, PURULENT.— PHLEGMON OF THE LACHRYMAL SAC.

Slit both canaliculi up to the lachrymal sac. Cut through the internal ligament with scissors to unite both wounds, and thus open the superior part of the sac completely.—Squeeze out contents.—Instil several drops of tincture of iodine or cauterize with mitigated pencil (287 b, d) [prevent injected liquid getting into eye].

Inject lachrymal sac with sublimate (3:1000), chloride of zine $(\frac{1}{2}$ to 1:100), creolin (2 to 4:100), thymol (0.05 to 1:1000) (312), sulphocarbolate of zine (1 to 3:100), or phenosally (4:1000).

Where inflammation is very great: Permanganate of potassium (2:1000).

Injections should be very earefully made, on account of danger from periorbital phlegmon.

In the interval patient should empty lachrymal sac frequently by squeezing. Sublimate compresses (1:5000), or boric acid (4:100), or subacetate of lead solution $(185 \ d)$.

Acute symptoms having disappeared: Probe nasal canal and treat as in chronic daeryocystitis (91).

93. DACRYOPS.

Excision of a part of the wall of the eyst and closure of the wound by sutures.

94. DALTONISM.—PARTIAL ACHROMA-TOPSIS.

In slight degrees of partial achromatopsis: Try glasses colored with fuchsin that increases the difference between red and green.

A color-blind person should never take up a calling which necessitates his being perfectly able to distinguish between colors, as: Coast-guard, sailor, switchman, dyer, dealer in or manufacturer of colored cloth.

95. DERMATOL.—BASIC GALLATE OF BISMUTH.

Can sometimes take the place of iodoform. Has no odor and does not irritate.

| Dermatol | 15 gr. |
|-----------------------|--------|
| Oxide of zinc | 112 |
| Vaseline | 37 |
| Mix and make a paste. | -3 |

For eczema of the lids.

Diastase. See Extract of Malt (115).

96. DIGITALIS.

| Powdered digitalis leaves | | | | | | 0[10 | 11 | gr. |
|--|--|--|--|--|--|------|----------------|-----|
| Powdered digitalis leaves White sugar | | | | | | 0 40 | $6\frac{1}{2}$ | gr. |
| 3 to 5 nowders a day | | | | | | ` | - | |

97. DISTICHIASIS.

Transplantation of ciliary margin.

Electrolysis: A fine platin-iridium needle, made

expressly for this purpose, is attached to the negative pole, while the positive electrode rests upon the arm. Strength of current can be increased to 8 m. a. Duration: A few seconds. Decrease slowly to zero. The lashes may be pulled out or left to fall out by themselves.—Remove but a few lashes at one time, and protect the cocainized cye by a plate of horn.

98. DOUCHES.

- a. Cold douche: 8° to 10° C. [47° to 50° F.]; short. Begin with douche of 3 seconds, and do not apply longer than 25 or 30 seconds.
- b. Scottish douche: Begin with hot douche of 30° C. [86° F.], increase temperature to 35°, 40°, and 45° C. [95°, 104°, and 113° F.], and end with a cold stream of 8° C. [47° F.].
- c. Alternating douche: Alternating hot and cold stream, for an equal number of seconds (10 to 15); not longer than 2 minutes altogether.

All douches can be thrown as a *spray* or a *stream*. On the whole, the stream is to be preferred. Direct it principally along the vertebral column, on feet, calves, and legs.

Whichever form of douche is used patient should observe the *following rules*:

Take a short walk before the douche.

Protect head and contract muscles during douche.

Dress quickly, and take vigorous exercise after douche (horseback-riding, gymnastics, fencing, etc.).

99. DOUCHES, EYE-DOUCHES.

- a. Steam-douche to clear up fresh corneal opacities. The cornea is steamed directly, and where necessary, protected by a thin muslin bandage. Time: 15 to 30 minutes.
- b. Simple spray: Patient opens and closes eye, exposing conjunctiva as much as possible. Dry the eye carefully after spray. Any appropriate collyrium can be used as a spray. Time: 30 to 40 seconds.
- c. As a quite strong stream in cases of asthenopia of neurasthenic origin. Apply to ocular and frontal region, the eyes remaining closed; dry, and use massage afterwards.

100. DOUCHE, NASAL.

Place vessel containing liquid about 50 centimetres (½ yard) above the head.—Insert olive of canula horizontally, so that one nostril is completely closed by it.—Hold the head erect, having care to breathe with open mouth to hinder liquid from penetrating into pharynx, and let it run out of the other nostril.—Douche through one nostril after the other.—After douche wait at least 20 minutes before blowing nose.

101. DRESSING, ANTISEPTIC.

Solutions for eye-baths:

| Corrosive sublimate | | | | | | 0[20 | 3 gr. |
|---------------------|--|--|--|--|--|---------|--------|
| Distilled water . | | | | | | 1000 00 | 2 pts. |

Patient washes, brushes, and disinfects his hands, soaks small pieces of hygroscopic cotton in the solu-

DUBOISINE-EMBOLISM

tion and places them upon the eye, which has been previously covered with a bit of muslin cut round, moistened with sublimate.—A strip of oiled silk, or gutta-percha tissue-paper, overlapping the cotton on all sides, hinders evaporation.—Dressing is held in place by a muslin or fine linen bandage.

Where patient cannot tolerate the sublimate, replace it by boric acid (30 a or 30 b).

Drooping of the Upper Lid. See Prosis (258).

102. DUBOISINE.

| Neutral sulphate | | | | | | | | | 5 gr. |
|------------------|--|--|--|--|--|--|--|-------|-----------------|
| Distilled water | | | | | | | | 10 00 | $2\frac{1}{2}3$ |

Instil one drop several times a day.

Duboisine combined with atropine. See Atropine (23 e).

Ecchymosis. See Conjunctiva (59) and Lids (196).

103. ECTROPION.

Cauterize with galvano-cautery.—Surgical treatment.

Eczema of the Cornea. See Phlyctenular Keratitis (173).

Effusion of Blood into Anterior Chamber. See HYPHEMA (138).

104. EMBOLISM OF CENTRAL ARTERY.

Careful massage of the eyeball. Repeated paracentesis of the anterior chamber.—Atropine (23 a). Keep bowels loose.—Avoid every excess (on account of the other eye).

105. EMPHYSEMA, SUBCONJUNCTIVAL.

Etiological treatment.—Pressure bandage.

106. ENTROPION.

Cauterize with galvano-cautery.—Surgical treatment.

107. EPICANTHUS.

Surgical treatment not before the eighth or the tenth year. The development of the nasal bone makes this anomaly either disappear or modifies it in all cases.

108. EPISCLERITIS.

Protect the eye: Dark glasses, or, better, a dry bandage.—Apply dry heat: Aromatic leaves (255 f) or conium leaves (255 g) in linen bags heated and applied to the eye for hours.—Massage with cocaine ointment (52 b), calomel ointment or powder (33 a, c).

For acute pain and pericorneal injection: Instil combined atropine and cocaine collyrium (23 b).

For coexisting conjunctivitis: Hot eye-baths with boric acid (30 a) or borate of sodium (29). Afterwards dry the eye thoroughly.

Watch the general health.

109. ERGOTIN.

As the different preparations of ergotin are of very variable strength, it is *better to prescribe ergotinin*, the alkaloid itself.

EROSIONS-ETHYL BROMIDE

| Ergotinin | 1/3 gr. |
|----------------------------------|---------|
| Sugar of milk | 8 gr. |
| Liquorice powder q. s. | |
| To make 50 nills : 3 nills daily | |

110. EROSIONS (OR FISSURES) AT THE OUTER ANGLE OF THE EYE.

| Ichthyol. | | | | | | | | | | | | | | | 4 | 0 | 13 |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|------|---|---|--------|
| Lanolin Glycerin | • | ٠ | ٠ | ٠ | ٠ | ٠ | ٠ | ٠ | ٠ | ٠ | ٠ | ٠ | ٠ | } āā | 5 | 0 | 75 gr. |
| Olive oil . | | | | | | | | | | | | | | | 1 | 0 | 15 gr. |

Repeated application with the pure or mitigated pencil of nitrate of silver $(287 \ b)$.

111. ESERINE OR PHYSOSTIGMINE.

Neutral sulphate of eserine . $0 \mid 03$ to $00 \mid 10 = \frac{1}{2}$ gr. to $1\frac{1}{2}$ gr. Distilled water $10 \mid 00 = 2\frac{1}{2}3$

Instit one drop several times a day.

112. ETHER.

a. Pure ether. Sulphuric ether.

Hypodermic injections in case of collapse produced by chloroform.

Pravaz syringeful several times.

b. Hypodermic injection of camphorated ether:

Camphor 1 part,

Ether 4 to 5 parts,

has a stronger effect than sulphuric ether alone.

Ether as a narcotic. See Chloroform Anæsthesia (42).

113. ETHYL BROMIDE.

Anæsthetic for a *short narcosis*.—Inhalation of 10|0 to 15|0 ($2\frac{1}{2}$ 5 to 43); maximal dose 20|0 (53).

EXALGIN-FIORAVENTI

It is dangerous to narcotize an individual twice on same day with this anesthetic.

Pure ethyl bromide is colorless, completely transparent; odor and taste is similar to ether.

114. EXALGIN (METHYLACETANILID).

| Exalgin | 50 | 38 gr. |
|------------------------------------|----|------------------|
| Spirits of peppermint | 00 | $2\frac{1}{2}$ 3 |
| Aqua tiliæ | | 43 |
| Syrup of orange flowers | 00 | 43 |
| Tablespoonful several times a day. | | |

Exophthalmic Goitre. See GOITRE (129A).

115. EXTRACT OF MALT.

2 teaspoonfuls twice a day.—Give preference to *diastase*, a powder of which 0|5 to 1|0 (7 gr. to 15 gr.) should be taken three times a day.

Eyelashes, Loss of the. See Loss of the Eye-LASHES (226).

116. FIORAVENTI, BALSAM OF.

| Cinnamon oil; clove oil; juniper oil; mace oil; turpentine oil; thyme oil | gtt. 5 |
|---|-----------|
| Peru balsam | gtt. 4 |
| Alcohol | 0 3 3 2 3 |
| Pub on fonehood and tamples | |

Fissures. See Erosions (110).

Fistula of the Lachrymal Sac. See under the heading of Chronic Dacryocystitis (91).

117. FLUORESCIN.

| Fluorescin | | | | | | | 00 40 | $6\frac{1}{2}$ gr. |
|---------------------|----|--|--|--|--|--|-------|--------------------|
| Carbonate of sodium | 1. | | | | | | 00 70 | 11 gr. |
| Distilled water | | | | | | | 20 00 | 53 |

Instil 1 drop, close the eye for several seconds, and wash with any collyrium.

Stains the parts of the cornea bare of epithelium green and those of the conjunctiva yellow.—Where epithelium is only altered the stain will be less marked.

118. FOOT-BATHS, MEDICATED.

Take foot-baths of an evening before supper or 2 or 3 hours after supper. 5 to 7 quarts of water.

—Time, 20 seconds to 2 minutes.—Wipe feet, and dry them thoroughly by rubbing afterwards.

Temperature, 35° to 40° C. [95° to 104° F.].

a. Mustard foot-bath. Foot-bath with mustard flour:

Mix 125 | 0 (43) of mustard flour with cold or barely lukewarm water. Add later a sufficient quantity of water.—Be careful not to put in any vinegar.

| b. Hydrochlorate of Ammonium f | oot-bath: |
|--------------------------------|-----------|
| Hydrochlorate of ammonium | 250 0 83 |
| Water q. s. for a foot-bath. | ł |

FORMALIN-GLAND

Formaldehyde. See FORMALIN (119).

119. FORMALIN.-FORMIC ALDEHYDE. --FORMOL.

- a. For disinfecting instruments: solution 1:500.
- b For the conjunctiva: solution 1:2000.
- c. In blenorrhea increase strength of solution up to 1:300.

Fowler's Solution. See ARSENIC (20 a).

120. GALLANOL.—GALLIC ACID ANI-LIDE.

| Gallanol | | | | | | | 1 0 to | 4]0 | 15 gr. | to 13 |
|----------|--|--|--|--|--|--|--------|------|--------|-------|
| Vascline | | | | | | | | 20 0 | 5 | 3 |

Cover with traumaticin (10 per cent. solution of gutta-percha in chloroform).

Eczema of the eyelids.

121. GELSEMIUM.

Tincture of gelsemium sempervirens.

15 to 30 drops several times a day on a piece of sugar.

Neuralgia of the fifth nerve and spasm of the orbicular muscle.

122. GLAND, LACHRYMAL, FISTULA OF THE.

Freshen up edges and close fistula by sutures. Cauterization.

123. GLAND, LACHRYMAL, INFLAMMA-TION OF THE.

Poultices (255).—Where there is fluctuation: Incision through conjunctiva.

124. GLAND, LACHRYMAL, TUMORS OF THE.

Extirpation.

125. GLASSES FOR WORK, RULES FOR PRESCRIBING.

1. Establish necessary refraction for distinct vision at working distance (t). It is in inverse ratio to this distance.

Example: For 25 cm., or
$$\frac{100 \text{ cm.}}{4}$$
: $t = 4 \text{ D.}$

2. Establish the amplitude of accommodation or dynamic refraction (a), of which only two-thirds $\left(\frac{2a}{3}\right)$ should be used for work, while one-third remains as a reserve. (The following table shows the

mains as a reserve. (*The following table* shows the normal amplitude of accommodation for different ages.)

Example: For the age of 40: a = 4.5 D; therefore $\frac{2a}{3} = 3 D$.

3. Establish the maximum of refraction which can be used for work (u) by adding the two-thirds of the dynamic refraction to the static refraction (r); $u = \frac{2a}{3} + r$. In myopia r is plus; in hypermetropia it is minus.

4. The glass for work (w) is found by subtracting the maximum of usable refraction for working distance (u) from the necessary refraction (t): W = t - u.

In our example (age 40, working distance 25 cm.):

W=4-3=1 for the emmetropic eye (where r=o).

W=4-(3-2.5)=3.5 for the hypermetropic eye of 2.5 D. (r negative).

W = 4 - (3 + 0.75) = 0.25 for the myopic eye of 0.75 D. (r positive).

We should remark that the myopic eye but rarely needs the help of concave glasses for work this side of its far point.

| YEARS. | Amplitude of accommodation according to Donders. | $\frac{a}{3}$. | Usable accommodation in round numbers. $\frac{2a}{3}.$ |
|--------|--|-----------------|--|
| 10 | 14 | 4.7 | 9 |
| 15 | 12 | 4 | 8 |
| 20 | 10 | 3.3 | 6.5 |
| 25 | 8.5 | 2.8 | 5.5 |
| 30 | 7 | 2.3 | 4.5 |
| 35 | 5.5 | 1.83 | 3 5 |
| 40 | 4.5 | 1.5 | 3 |
| 45 | 3.5 | 1.17 | 2.5 |
| 50 | 2.5 | 0.83 | 1.75 |
| 55 | 1.75 | 0.58 | 1.25 |
| 60 | 1 | 0 33 | 0.75 |
| 65 | 0.75 | 0.25 | 0.5 |
| 70 | 0.25 | 0.08 | 0 |

126. GLAUCOMA, ABSOLUTE.

Where there are violent attacks with irritation of the other eye: Enucleation.

127. GLAUCOMA, ACUTE.

Forbid mydriaties and poultiees.

Eserine (111), pilocarpine (251a). Drastic catharties, diuresis, and diaphoresis (305). Complete rest of body and mind. Bloodletting (186). Nareotics, hypodermic injections of morphine (231 c).

Repeated paraeentesis. Irideetomy from above. Large and peripheral incision. [Where the tension is great irideetomy can be facilitated by making a puncture of the sclera first.] Anterior sclerotomy: Puncture and counter-puncture as much in the periphery as possible [should about correspond with the horizontal meridian]; push the knife up as high as possible on both sides, but leave a bridge of sclera separating cuts to prevent prolapse of the iris. Sclerotomy with the lance, repeated at diverse points of the limbus. Posterior sclerotomy: Incision at region of the equator of the eye between rectus externus and rectus superior; let a little of the vitreous escape.

Always regulate the outflow of aqueous humor or vitreous carefully in order to prevent intra-ocular hemorrhages.

After the operation: Instil myotics (235) repeatedly.

128. GLAUCOMA, CHRONIC.

Myotics (235).—Avoid congestions to the head and excitement.—Irideetomy.—Incision of the an-

gle of the iris.—Anterior or posterior sclerotomy. For pain: Narcotics.

129. GLAUCOMA, HEMORRHAGIC.

Rest.—Myotics (235).—Ice.—For pain: Narcotics, exceptionally lukewarm poultices with conium leaves (255 g), hypodermic injections of morphine (231 e).—Punctures through the sclera, do not try any other operations.—Where pain persists: Enucleation.

129A. GOITRE, EXOPHTHALMIC.—GRAVES' DISEASE.—BASEDOW'S DISEASE.

Phosphate of sodium in doses of $15 \mid 0 \mid (\frac{1}{2}5)$ pro die. Preparations of thyroidin (daily dose should represent $2 \mid 0$ to $4 \mid 0 \mid [\frac{1}{2}3]$ to $13 \mid$ of the fresh gland.) Cease giving thyroidin as soon as diarrhea sets in or where there is no amelioration of symptoms after three weeks of this treatment. Galvanization of the cervical sympathetic nerve. Hydrotherapy (98). Light diet. Avoid mental emotions as much as possible. In severe and unyielding cases extirpation of the cervical sympathetic.

Granulations. See Granular Conjunctivitis (75).

Graves' Disease. See Exophthalmic Goitre (129A).

130. HEBRA'S OINTMENT.

Spread on piece of linen; renew application every 24 hours at least.

131. HEMERALOPIA RESULTING FROM TORPOR OF THE RETINA.

Systemic treatment.—Treat gastric and intestinal troubles. Strengthening food, open air, gymnastic exercises.—Quinine (259), iron (164), cod-liver oil (54).—Keep patient away from noxious influences [excess of work, strong light].—Prescribe smoked glasses and instil myotics (235) in a weak solution for a long time.—Correct with glasses anomalies of refraction.

132. HEMIANOPSIA.-HEMIOPIA.

Etiologic treatment.—In case of apoplexy: Derivative treatment; absolute rest; elevated position of head; ice bag; later electricity.

133. HOMATROPINE.

Hydrobromate or sulphate of

Instil from 2 to 4 drops, at 5 minutes' interval between drops. To determine refraction.

Hordeolum. See Stye (301).

134. HYDRASTIS CANADENSIS.

Fluid extract of hydrastis canadensis.

Several times daily 10 to 15 drops.

Hydrochloric Acid. See FOOT-BATHS (118 c).

135. HYDROGEN, PEROXIDE OF.—OXY-GENATED WATER.

a. Pure peroxide of hydrogen, 3 per cent., which means having 3 per cent. of its weight of oxygen.

For antiseptic dressings, principally in purulent processes of conjunctiva and cornea.

HYOSCINE-HYPERMETROPIA

| b. | Pure pero | xi | de | of | h | yd | ro | ge | n, | 2 | to | 3 | per | С | en | t. | 40 0 | $1\bar{3}\ 2\frac{1}{2}\bar{3}$ |
|--------------------|-----------|----|----|----|---|----|----|----|----|---|----|---|-----|---|----|----|------|---------------------------------|
| | Vaseline | | | | | | | | | | | ٠ | | | | | 20 0 | 53 |
| | Lanolin | | | | | | | | | | | | | | | | 10 0 | $2\frac{1}{2}3$ |
| (Unna's ointment.) | | | | | | | | | | | | | | | | | | |

Hydrophthalmos. See CHRONIC GLAUCOMA (128).

Hydrotherapy. See Douches (98).

136. HYOSCINE.

| Hydrochlorate of hyoscine . | | | | | | | | 00 01 | $\frac{1}{6}$ gr. |
|-----------------------------|----|---|----|----|-----|------|---|----------|-------------------|
| Distilled water | | | | | | | | 20 00 | $2\frac{1}{2}$ 3 |
| One comingatul - 010005 (1 | an | ١ | of | Z. | 210 | oain | 0 | · do not | inigat |

One syringeful = $0 \mid 0005 \mid_{1\frac{1}{25}} gr.$) of hyoscine; do not in more than $0 \mid 001 \mid_{\frac{1}{50}} gr.$). See also Mydriatics (233).

Hyoscyamine. See Hyoscine (136).

Hyoscyamus, Oil of. See Balsamum Tran-QUILLANS (24).

137. HYPERMETROPIA.

Judicious use of convex lenses should the asthenopia or insufficiency of vision demand it. For distant vision, correct at most but the manifest hypermetropia.

In choosing a glass for *near vision* it is well to remember that $only \frac{2}{3}$ of the amplitude of accommodation are to be used for continuous work, so that a reserve of $\frac{1}{3}$ remains. Therefore a lens relieving $\frac{1}{3}$ of the amplitude of accommodation should be prescribed.

Example: Hyp.= 0.75. Ampl. of acc. = 3. Working distance, $\frac{1}{4}$ metre.

We have, therefore, a postulate for a positive power of refraction of 0.75 + 4 = 4.75 D. Patient supplies $\frac{2}{3}$ of his amplitude of accommodation = 2 D. He lacks 4.75 - 2 = 2.75 D, which has to be prescribed in the form of the convex glass.

HYPHÆMA—ICHTHYOL

Therefore +2.75 D is the reading glass in our example.

For ordinary reading distance, see table of Presbyopia (256).

When there is a tendency to convergent strabismus prescribe stronger glasses. See Convergent Strabismus (295).

The troublesome *prismatic effect* of strong convex lenses can be neutralized by decentring them, or by a combination of the convex glass with a prism basis inward. For near and far vision without a change of spectacles: *Franklin glasses* or *bifocals*.

In aphakia: Prescribe for distance a glass correcting entire hypermetropia; for near vision add to this the lens corresponding to the distance wanted.

Example: Hyp. 11 eorrected by + 11.0 D. For vision at $\frac{1}{3}$ m. add + 3, thus making it 14 D in all.

138. HYPHÆMA.

Etiologic treatment.—Aid resorption by eompresses with subacetate of lead solution (185 d), and pressure bandage or massage with coeaine ointment (52 b).—Where there are symptoms of irritation [perieorneal injection, severe pains] due to a larger effusion of blood: Paracentesis made at the lower margin of the eornea. Let the blood escape very slowly, compressing the globe gently through the upper lid to ward off the danger of renewed hemorrhages ex vacuo.

139. ICHTHYOL.

| Ichthyol | | | | | | | | 3 0 | 45 gr. |
|----------------|--|--|--|--|--|--|--|------|--------|
| White vaseline | | | | | | | | 20 0 | 53 |

140. INSOMNIA.

Sleep with head lowered. Well-aired bedroom. Lukewarm bath and warm milk before retiring. Pillow stuffed with hops.—Bromides (31), chloral hydrate (39), sulphonal (303), trional (315), lactophenin (183).

141. INSTILLING OF COLLYRIA.

Instil with an eye-dropper.—Avoid touching conjunctiva with eye-dropper.—After instillation keep eye closed from 3 to 5 minutes.—Compress lachrymal passages where there is danger from a poisonous collyrium.

142. INSUFFICIENCY OF CONVERGENCE.

Refrain from work which tires the eye.—Aid vision (correct astigmatism).—Strengthen the general system.

Methodical and moderate exercise of convergence: Simple, well-defined object (black line on white background, luminous slit of Landolt's dynamometer). Patient brings object slowly nearer in median axis as long as he can keep simple binocular vision.

Where insufficiency is of *slight degree* [1 or 2 metre angles (see table hereafter)]: Prescribe *prisms*, base inward, which can be combined with glasses permitting near work.

Should this treatment prove to be *ineffectual*: Advancement of one of the internal recti muscles. If after weeks and months the insufficiency still per-

INSUFFICIENCY OF CONVERGENCE

sists: Advancement of the internal rectus of the other eye. Tenotomy of an external vectus is permissible only where power of divergence is very great (more than 1 metre angle), as it nearly always loses more for the eye in excursion on the side of the operated muscle than it gains on the opposite side.—By advancement we gain much more for the operated side without causing any loss on the other.—Therefore with a tenotomy we can bring about a vexatious insufficiency of divergence (conv. strabismus with homonymous diplopia) without covvecting the insufficiency of convergence, which is not to be feared in an advancement.

TABLE SHOWING REDUCTION

| | REES INTO GLES [M. A.]. | OF METRE ANGLES [M. A.] INTO DEGREES. | | | | | | | | | |
|---|--|---|---|--|--|--|--|--|--|--|--|
| Basis Line.* 58 mm. | Basis Line.* 64 mm. | Basis Line.* 58 mm. | Basis Line.* 64 mm. | | | | | | | | |
| Degrees. M. A. $0.5^{\circ} = 0.3$ $1^{\circ} = 0.6$ $1.50^{\circ} = 0.9$ $2^{\circ} = 1.2$ $2.50^{\circ} = 1.5$ $3^{\circ} = 1.8$ $4^{\circ} = 2.4$ $5^{\circ} = 3.6$ $6^{\circ} = 3.6$ $7^{\circ} = 4.2$ $8^{\circ} = 4.8$ $9^{\circ} = 5.4$ $10^{\circ} = 6.0$ | Degrees. M. A. 0.5° = 0.27 1° = 0.55 1.50° = 0.82 2° = 1.09 2.50° = 1.36 3° = 1.64 4° = 2.18 5° = 2.73 6° = 3.27 7° = 3.82 8° = 4.36 9° = 4.91 10° = 5.45 | M. A. Degrees, 0.5 = 0.50° 1 = 1.40° 2 = 3.20° 3 = 5° 4 = 6.40° 5 = 8.20° 6 = 10° 7 = 11.40° 8 = 13.20° 9 = 15° 10 = 16.40° 11 = 18.20° 12 = 20° | M. A. Degrees. 0.5 = 0.55° 1 = 1 50° 2 = 3.40° 3 = 5.30° 4 = 7.20° 5 = 9.10° 6 = 11° 7 = 12.50° 8 = 14.40° 9 = 16.30° 10 = 18.20° 11 = 20.10° 12 = 22° | | | | | | | | |

^{*} As basis line the distance between the centres of rotation of the two eyes is designated.

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143. INUNCTIONS, MERCURIAL.—IN-UNCTIONS WITH BLUE OINT-MENT.

Simple mercurial ointment [1 part mercury to 2 parts excipient].

Prescribe 10 packages of 2|0 (\frac{1}{2}3) wrapped in oiled paper.—Rub contents of one package into a different part of the body each day: Left calf, right calf, left thigh, right thigh, left forearm, right forearm. Rub well into skin (15 minutes). Take a lukewarm bath every four days. Rinse the mouth frequently, and brush teeth with:

| Chlorate of potassium | | | | | | 10 0 | $2\frac{1}{2}$ 3 |
|-----------------------|--|--|--|--|--|-------|------------------|
| Distilled water | | | | | | 500 0 | 1 pt. |

For more energetic mercurial treatment, see Specific Treatment (291).

144. INUNCTIONS, SOOTHING.

| | Alcohol | 50 00 | 13 53 |
|------------|--------------------------|--------|-----------|
| <i>b</i> . | Balsamum tranquillans | 20 | 00 53 |
| | Chloroform | | |
| | Tincture of opium | 5 | 00 75 gr. |
| | Fluid extract belladonna | | |

Fluid extract hyoscyamus } åå 0 50 åå 7½ gr. Shake before using.

145. INUNCTIONS, STIMULATING.

- a. With bay rum
- b. Spirits of camphor.

| С. | Balsam of I | Fioraventi (| 11 | 6) | | | |) |
|----|-------------|--------------|----|----|--|--|--|----------------------------|
| | Spirits of | peppermin | t | | | | | aā 50 0 āā 1 3 53 |
| | Spirits of | rosemary | | | | | | |

146. IODIDE OF POTASSIUM.

| 1 | | | | | | | |
|---|----|----|-----|----|---|----|--|
| | и. | nt | 331 | 63 | m | 60 | |
| | | | | | | | |

| a. | Todide of potassiu | | | | | | | | | | | | | | | ½3 |
|----|--------------------|----|----|---|----|-----|-----|----|-----|----|--------------|------|---|-----|------|----------------|
| | Benzoinated lard | | | ٠ | | ٠ | ٠ | ٠ | ٠ | ٠ | ٠ | ٠ | • | 20 | 0 | 53 |
| b. | Iodide of potassiu | m | | | | | | | | | | | | 2 | 00 | $\frac{1}{2}3$ |
| | Pure iodine | | | | | | | | | | | | | | | 8 gr. |
| | Benzoinated lard | | | | | | | | | | | | | 20 | 00 | 53 |
| | Inunctions of for | eh | ea | d | an | d i | ten | rp | les | 07 | $ic\epsilon$ | e to | t | wic | e da | ily. |
| | c. Syrup iodide | • | f | р | ot | as | ssi | uı | m | : | | | | | | |
| To | dide of notessium | | | _ | | | | | | | | | | 10 | 10 | 917 |

| Iodide of potassium | | | | | | 10 0 | $^{2\frac{1}{2}}3$ |
|----------------------|--|--|--|--|--|-------|--------------------|
| Syrup of orange peel | | | | | | | |
| Distilled water | | | | | | 250 0 | 83 |

One tablespoonful at least one-half hour before meals.

147. IODINE.

a. Tineture of iodine (use preferably the tineture from which color has been removed by ammonia; it has the same action).

External use: Frictions and applications.

Internal use: 15 to 20 drops in half a glass of iced milk in obstinate vomiting.

b. Syrup iodide of iron:

| Iodine | | | | | , | | | | 1 5 | 23 gr. |
|----------------------|----|---|----|----|---|--|--|--|--------|--------|
| Powdered iron . | | | | | | | | | 2 5 | 38 gr. |
| Syrup armoraciæ | | | | | | | | | 1000 0 | 2 pts. |
| $Two\ table spoonfu$ | ls | α | da | y. | | | | | | |

148. IODOFORM.

| а. | Iodoform | | | | ٠ | | | ٠ | | ٠ | 1]0 | 15 gr. |
|----|------------|------|--------|-----|------|--|--|---|--|---|------|--------------------|
| | Vaseline . | | | | | | | | | | 10 0 | $^{2\frac{1}{2}}3$ |
| | 1. Tadaca | | 31 | ~ 2 | 14 0 | | | | | | | |

b. Iodoform collodion:

| | | | - | | | | | | |
|--------------------|------|--|---|--|--|--|--|------|--------|
| Iodoform | | | | | | | | 5 0 | 75 gr. |
| Flexible collodion | | | | | | | | 50 0 | 13 53 |

149. IODOL.

Inodorous; non-irritant. Takes the place of iodoform.

- a. As a powder; or,
- b. As an ointment:

| Iodol | | | | | | | | | 2 0 | ½3 |
|------------------------|--|--|--|--|---|--|---|-----|-----|----|
| White vaseline Lanolin | | | | | ٠ | | 1 | | 00 | 0= |
| Lanolin | | | | | | | 5 | સંસ | 010 | 23 |

150. IODOPHENOCHLORAL.

Mixture of equal parts tincture of iodine, carbolic acid, and chloral.

Carefully touch up margin of lids in unyielding ulcerous blepharitis.

151. IRIDEREMIA.—ABSENCE OF THE IRIS.

Where there is photophobia: Smoked glasses, stenopæic glasses, circular tattooing of the cornea.

152. IRIDOCHOROIDITIS.—IRIDOCYCLO-CHOROIDITIS.

Acute stage: Mydriatics (233).—Antiphlogistic treatment (bloodletting at temple or mastoid process.—Dark room.—Avoid all congestions, alcohol, spiced meats, etc., as well as all food which is hard to digest.—Diaphoresis and diuresis (305).—Medicated foot-baths (118).

Chronic stage: Paracentesis of the anterior chamber. Iridectomy.—Massage of the eyeball.—Poultices (255) several hours daily.—Dark glasses.—Derivative treatment.

In case of syphilis: Specific treatment (291).

153. IRIS, ANGIOMA OF THE.

Excision where it irritates.

154. IRIS, COLOBOMA OF THE.

Where there is photophobia: Smoked glasses.

Tattooing of the cornea adapted in color to the iris.

155. IRIS, CYST OF THE.

As long as cysts do not give rise to inflammation: Wait; otherwise excision.

156. IRIS, CYSTICERCUS OF THE.

Excision (iridectomy) of the part of the iris containing the parasite.

Iris, Foreign Body of the. See under the heading of Foreign Body of the Cornea (84).

157. IRIS, GUMMATA OF THE.

Energetic specific treatment (291).

Iridectomy is indicated where gummata are few and very near to each other. It will always be made where synechiæ are present.

158. IRIS, SARCOMA OF THE.

Where tumor is very small and circumscribed and where the eye shows no sign of deeper trouble: Excision. Enucleation is safer.

159. IRIS, TRAUMA OF THE.

Foreign body of the iris: Simple extraction or iridectomy according to the case.

Prolapse of the iris: Excision or cauterization of the prolapsed part. Antiseptic dressing (101).

160. IRIS, TUBERCLE OF THE.

According to extent: Excision or enucleation. Where patient shows symptoms of advanced tuberculosis of other organs: Symptomatic treatment.

161. IRITIS, Plastic, Rheumatic, Arthritic, Blennorrhæic, Syphilitic.

Mydriatics: Atropine (23 a), alternating with duboisine (102), or combined with cocaine (23 b), or a combination of atropine, cocaine, and duboisine (23 c).—Should the pupil not be enlarged by these solutions: Extract of belladonna or duboisine in substance (having care to close lachrymal points by pressure).—Close the eyes for at least five minutes after instillation.—Always watch the intra-ocular tension. As soon as tonus is +: Replace the mydriatics mentioned by scopolamine (284).

Rest for the eyes. Bandage the eye affected; dark room or smoked glasses according to cause and intensity of the disease.

Avoid sudden changes of temperature, draughts, etc.

Bloodletting or dry leeches at temple. Iodine ointment (146 b).—Poultices (255), hot compresses. For severe pain: Hypodermic injection of morphine (231 c).—Laxatives, diuresis, and diaphoresis (305).

Etiologic treatment: Where there are other symptoms of *rheumatism*, salicylate of soda (275, antipyrin (15), antifebrin (14), alkalies, acetate of potassium (254), lithia water (225 b).—Turkish baths.

In case of urethral blennorrhæa: Salol (278) and energetic treatment of the urethral trouble.

In syphilis: Specific treatment (291).

For dysmenorrhæa, scrofula, and anæmia: Strengthening treatment [arsenic (20), iron (164), etc.].

Continue mydriatics for some time after inflammatory symptoms have disappeared. Should syncchiae capable of bringing on relapses remain, iridectomy may be indicated.

162. IRITIS, SEROUS.

Treatment similar to that of interstitial keratitis (170).

General treatment: Tonics.--Diaphoresis (305), species sudorificæ (290), moist pack.

Local treatment: Atropine (23) (stop when tonus is +).—Hot compresses.—Poultices (255). Should deposits form on the posterior surface of the cornea: Paracentesis. Withdraw the needle slowly; thereupon open the wound by light pressure upon its edge with a spatula, so as to let the aqueous humor escape drop by drop. Repeat this on following days without renewing puncture.

In case of *relapse*: Change of climate, sojourn in the country.

163. IRITIS, TRAUMATIC.

The only form of iritis in which iced compresses are indicated. Otherwise about the same treatment as in ordinary iritis (161).

164. IRON.

- a. Sulphate of iron 1 0 to 2 0 15 gr. to 13 150 0 53 Distilled water Collurium.
- b. Blaud's Pills:

| Sulphate of iron | | | |) as 1510 as 17 |
|---|--|--|--|------------------------|
| Sulphate of iron Carbonate of potassium | | | | } aa 10 0 aa 23 |
| | | | | |
| Tragacanth | | | | } q. s. for 100 pills. |
| 3 to 5 mills a day | | | | |

c. Tincture of iron malate.

Immediately after or during meals 5 to 10 drops in water. d. Ammonium citrate with iron pyrophosphate. } equal parts.

Sugar of milk

Twice daily according to age of child 1|0 to 3|0 of the mixture in milk or soup.

Wine of Iron and Quinine Citrate. See Qui-NINE (259 a).

Syrup, Iodide of Iron. See Iodine (147 b). Iron Baths. See Medicinal Baths (25 c).

165. JEQUIRITY, MACERATION OF.

Macerate in one pint of water 10|0 (2½3) of old shelled jequirity seeds for 24 hours.

166. JUNIPER OIL.

a. Pure juniper oil

KEFIR-KERATITIS

| | Or better | ٠: | | | | | | | | | | | | | | | |
|------------|-------------|----|----|----|----|----|----|----|---|-----|----|----|-----|----|--|-----|-----------------|
| <i>b</i> . | Juniper oil | | | | | | | | ٠ | | | | | | | 2 0 | $\frac{1}{2}$ 3 |
| | Olive oil . | | | | | | | | | | | | | | | | 45 gr. |
| | Apply to | bo | rd | er | of | li | ds | in | ł | ole | ph | ar | iti | 3. | | , | 0 |

The oil penetrates into the eye easily and eauses great irritation.

167. KEFIR.

- a Weak kefir (has fermented 24 hours).
- b. Medium strong kefir (has fermented 48 hours).
- c. Strong kefir (has fermented 72 hours).

Take in small quantities at a time. Maximum: 3 quarts daily.

Keratitis of Stellwag. See DEEP PUNCTATED KERATITIS (174).

168. KERATITIS THROUGH LAGOPH-THALMUS.

Close lids by sutures, leaving an opening which permits cleaning of the eye with aseptic solutions. Where surgical interference is not permitted: Dry aseptic dressing during the night; repeated instillations of milk, glycerin, or mucilaginous fluids during the day. Pilocarpine (251 a) or eserine (111).

Keratitis, Eczematous. See Phlyctenular Keratitis (173).

Keratitis, Fascicular. See Phlyctenular Keratitis (173).

169. KERATITIS, FILAMENTOUS.

Hasten and facilitate the abnormal exfoliation of the epithelial layer by instillations of an aqueous solution of hydrochlorate of ammonia 2:100.

⁶ to 10 times a day.

170. KERATITIS, INTERSTITIAL.—PAR-ENCHYMATOUS KERATITIS.

In the *beginning*: Atropine (23 a). Stop as soon as pupil is dilated.—Poultices (255), 4 to 10 hours a day.—Steam-douches (99 a).

For intense pain: Hot fomentations with

| Extract of belladonna | | | | | | | | 3 0 | 45 gr. |
|-----------------------|----|--------------|------|------|----|-----|----|----------|-------------|
| Distilled water | | | | | | | | 200 0 | 67 53 |
| One tablespoonful in | 01 | <i>ie-</i> . | half | pint | of | hot | wa | ter (35° | to 40° C.). |

Later (when inflammatory symptoms are less pronounced) lessen hot applications slowly and add massage of the cornea, at first once, then twice, to three times daily for 2 to 5 minutes. Use for massage calomel ointment (33 a) or:

| Lanolin Blue ointment . | | | | | | |) | | 1 | | 15 |
|-------------------------|--|--|--|--|--|--|---|----|---|---|----------------|
| Blue ointment. | | | | | | | } | aa | 1 | U | aa 15 gr. |
| Yellow vaseline | | | | | | | | | 2 | 0 | $\frac{1}{2}3$ |

After massage bathe the open eyes with a boric acid solution (4:100) or a solution of biborate of soda (1:150).

To hasten resorption by vascularization: Instil rancid oil or touch up corneal limbus or conjunctival sac with the galvano-cautery.

General tonic treatment.—Rational and strengthening food.—Hygienic diet: Open air, exercise, medicated baths (25), iron (164), quinine (259), arsenic (20).—Sojourn in the country or at the sea-shore.

Where heredity is proved and child is not too weak: Energetic antisyphilitic treatment (291), interrupted every 2 to 3 weeks by 5 days of rest.

171. KERATITIS, NEUROPARALYTIC.— INDOLENT ULCER OF THE CORNEA.

Aseptic protective bandage.—Antiseptic washes.—Eserine (111) or pilocarpine (251 a). Galvanic current; positive pole held at neck, negative pole on closed lids.

172. KERATITIS, PANNOUS.—CORNEAL PANNUS. SUPERFICIAL VASCULAR KERATITIS.

Treat the *cause* [foreign bodies, chalky deposits, trichiasis (314) and distichiasis (97), entropion (106), granular conjunctivitis (75), etc.].

Eserine (111) or pilocarpine (251 a) if there are no symptoms of iritis.—Direct massage with finely powdered boric acid (30 c) (after cocainizing).—Yellow oxide ointment (10:100!).—Insufflations of antipyrin powder and gentle massage [intense reaction]. Or:

| Red oxide | of | n | 1ei | ret | ıry | , | | | | | | 0 | 15 | | $2\frac{1}{2}$ | gr. | | | |
|-----------------------|----|---|-----|-----|-----|---|---|---|----|-----|----|---|----|----|----------------|------------|------|-----|-----|
| Camphor | | | | | | | | | | | | 0 | 10 | | $1\frac{1}{2}$ | gr. gr. | | | |
| Vaseline Lanolin . | | | | | | | , |) | | 110 | , | 0 | 00 | | 1 ~ | | | 4 ~ | |
| Lanolin . | | | | | | | | } | aa | τlο | to | 3 | 00 | aa | 19 | gr. | to 4 | £9 | gr. |

In unyielding cases: Abrasion of the region of the corneal limbus down to the sclera, followed by scarification of the sclera. Peritomy. Peridectomy, followed by scarification of the epischeral tissue.

Keratitis, Parenchymatous. See Interstitial Keratitis (170).

173. KERATITIS, PHLYCTENULAR, ECZEMATOUS.—ECZEMA OF THE CORNEA.—FASCICULAR KERATITIS.

Forbid bandage.—Smoked glasses.—Myotics (235) [atropine (23 a) only in cases of threatening iritis; combine it with cocaine (23 b) where there is blepharospasm].—Massage with calomel (33 c) [forbid internal use of iodine preparations].

Several times daily compresses with sublimate $(\frac{1}{5} \text{ to } \frac{1}{2} \text{ in } 1000)$ or with boric acid (4:100).

In case of small *superficial ulcerations*: Replace calomel powder by iodol (149), aristol (18 a), calomel (33 c), or yellow oxide (229 a) ointment.

Where ulcers are deep and large: Treatment of ulcerous keratitis (176).

Should the phlyctenulæ not yield to calomel: Cauterize either with point of a mitigated nitrate of silver pencil (287 b, β) or with galvano-cautery, followed by a well-fitting bandage moistened with sublimate (1:3000) or with the following solution:

| Neutral sulphate | | | | | | | | |
|------------------|--|--|--|--|--|--|--|-----------|
| Boric acid | | | | | | | | |
| Glycerin | | | | | | | | |
| Distilled water | | | | | | | | 10 00 213 |

For photophobia and blepharospasm: Dip the face in fresh water, whereupon rub vigorously with a rough towel; let the child walk or run in a room in which obstacles have been placed so as to force it to open its eyes.—In unyielding cases: Open the lids by force and keep them open during from 5 to 15 minutes.—Blepharorrhaphy.

KERATITIS

Attend to the *eczema* and *aene* of the face and head: Soap the head vigorously with tar soap and make appropriate applications with ointments. See Eczema of the Lids (197).

Attend to the scrofulous rhinitis: Clean nasal cavities frequently. Nasal douches (100). Insufflations of:

| Subnitrate of bismuth | | | | | | 20 0 | 53 |
|-----------------------|--|--|--|--|--|------|------------------|
| Tannin | | | | | | 4 0 | 17 |
| Powdered benzoin | | | | | | 10 0 | $2\frac{1}{2}$ 3 |

General antiserofulous treatment: Baths with bran (25 a) or sea-salt (25 d); cod-liver oil (54); iron preparations (164), arsenic (20), syrupus armoraciæ (308); kola (179). Sojourn in country or at sea-shore [avoid sandy beaches].

Combat swelling of the conjunctiva by cauterization with the pure $(287\ b)$ or mitigated $(287\ b,\ a)$ nitrate of silver pencil.

For pain: Collyrium (52 a) or ointment (52 b) with cocaine or morphine (231).

Cauterize fissures brought on by tears with the nitrate of silver pencil $(287\ b)$ and apply the following ointment:

| Acetate of lead | | | | | | | | | 2 | 00 | $\frac{1}{2}$ 3 |
|------------------|--|--|--|--|---|---|---|--|----|----|--------------------|
| Extract of opium | | | | | | ٠ | | | 0 | 10 | $1\frac{1}{2}$ gr. |
| Balsam of Peru | | | | | - | | | | 5 | 00 | 113 |
| Fresh lard | | | | | | | ٠ | | 30 | 00 | 13 |

174. KERATITIS, DEEP PUNCTATED. —KERATITIS OF STELLWAG.

[Do not confound with the deposits on posterior surface of eornea through serous iritis.]

KERATITIS

In the *beginning*: Atropine $(23 \ a)$ and energetic antiphlogistic treatment.

Later: Eserine (111) or pilocarpine (251 a). Yellow oxide ointment (229 b). Poultices (255); hot fomentations with an infusion of chamomile flowers or belladonna leaves. Hypodermic injections of pilocarpine (305 b). Systemic treatment of arthritis and gout: Lithium salieylate (225 a).

175. KERATITIS, SUPERFICIAL NON-VASCULAR.

Atropine (23 a), where there are symptoms of impending iritis; otherwise, escrine (111) or pilocarpine (251 a).—Poultices or hot compresses with boric acid (4:100).—Calomel (33 a), boric acid (30 d), or yellow oxide (229 b) ointments.

Keratitis, Superficial Vascular. Sec Pannous Keratitis (172).

176. KERATITIS, ULCEROUS.—ULCER OF THE CORNEA.

Strict antiscpsis.—Avoid cold applications.

Etiologic treatment: Foreign bodies, purulent conjunctivitis (69, 77), trachoma (75), dacryocystitis (91, 92) [in this last case the radical operation with scraping or cauterization of the lachrymal sac is the safest], ozena: Repeated douches with sublimate (1:2000) and inhalations of:

| Carbolic acid . | | | | | | | | | 5 | 0 | 75 gr. |
|------------------|--|--|--|---|---|--|--|--|----|---|--------|
| Absolute alcohol | | | | | | | | | 15 | 0 | 13 |
| Aqua ammonia | | | | ٠ | ٠ | | | | 5 | 0 | 75 gr. |
| Distilled water. | | | | | | | | | 10 | 0 | 213 |

Bismuth, finely pulverized, to be used as a snuff every three hours.

KERATITIS

Antiseptic dressing (101) and hot compresses with sublimate (1:5000).—Apply chlorine water or chloride of zine (325 c) with a brush.—Fomentations with salicylic acid (1 to 2 per 100).

Where fundus and sides of ulcer are *infiltrated*: Galvano-cauterization followed by free and prolonged irrigation with strong antiseptic solutions, or: scraping with sharp spoon followed by the application of a strong sublimate solution (1:500), or: subconjunctival injection of a sublimate solution (1:2000) [daily amount one syringe of Pravaz].

Instillations of atropine (23 a) where perforation is not to be feared.

Where perforation is to be feared from lack of resistance of the ulcerated cornea: Myotics (235).

As soon as *perforation* seems *inevitable*: Perform it carefully with the galvano-cautery. Previously instil atropine (23 a) where ulcer is central, or a myotic (235) where ulcer is peripheral.

In case of *ulcus rodens with hypopyon*: Keratotomy, passing through the centre of the ulcer, or paracentesis from below parallel to corneal margin, followed by washing of the anterior chamber with:

| Salicylate of eserine | | ٠ | ٠ | ٠ | | 0 12 | $2 \mathrm{gr}$. |
|------------------------------|--|---|---|---|--|-------|--------------------|
| Boric acid | | | | | | 1 00 | 15 gr. |
| Distilled water | | | | | | 25 00 | $6\frac{1}{2}3$ |
| Thereupon instil: | | | | | | | |
| Neutral sulphate of atropine | | | | | | 0 50 | 8 gr. |
| Neutral sulphate of quinine | | | | | | 20 00 | 53 |
| Sterilized distilled water | | | | | | 30 00 | 13 |

Then: Antiseptic dressing (101).

Should pain caused by the ulcer be very great:

KERATOCONUS-KERATOGLOBUS

Morphine injections (231 c) at temple, instillations of cocaine (52 a), or fomentations and compresses with:

| Lime water | }āā 200 0 āā 6 3 6 3 |
|--|------------------------------------|
| Hydrochlorate of cocaine | 4 0 13 |
| and three times a day an instillation of | 3 drops of: |
| Extract of Calabar bean | 0 30 4½ gr. |
| Pure glycerin | $10 00 2\frac{1}{2}$ |

For *deep indolent ulcer* of the cornea, the treatment is the same as that of neuroparalytic keratitis (171).

177. KERATOCONUS.

Stenopæic glasses.—Spherical, conical, or torical glasses placed before the cornea or in contact with it.

Where necessary: Galvano-cautery applied to apex of keratoconus, followed by aseptic pressure bandage.—Ablation of the apex or a segment of the cornea.

178. KERATOGLOBUS.

In the *beginning*: Pressure bandage.—Myotics (235).—Peripheral iridectomy.—Section through the ciliary muscle.—Sclerotomy.—Repeated paracentesis.

Where the prominence of the keratoglobus hinders the movements of the lids: Ablation of the prominent part or enucleation.

179. KOLA.

- a. Kola wine.
 50 | 0 to 100 | 0 (1½ \(\frac{1}{2} \) to 3\(\frac{3}{2} \)) a day.
- b. Fluid extract of kola.10 drops several times a day.

Lachrymal Sac, Blennorrhæa of the. See Purulent Dacryocystitis (92).

Lachrymal Sac, Fistula of the. See under the heading of Chronic Dacryocystitis (91).

180. LACHRYMAL PASSAGES, OB-STRUCTION OF THE.

Methodical use of probes without slitting lachrymal canals except where absolutely necessary. The ends of the probes should be olive-shaped.—At each dilatation leave them in place for about 15 minutes.—Do not probe more often than necessary, just often enough to keep passages open for tears and injections.—Medicines should be injected with a syringe, the point of which is also olive-shaped.

In unyielding eases: Ablation of the palpebral or orbital lachrymal gland [operating from conjunctival side] or:

Electrolysis of the lachrymal passages: A Bowman probe (insulated with the exception of the end) is introduced into the duct [avoid splitting canaliculus, if possible; where this is unavoidable it must be done some time before this process is tried]. Connect probe with the negative pole. The positive pole wrapped in a little moist cotton is placed in the nostril of the same side.—Increase intensity of current by the aid of the rheostat slowly up to a

maximum of 5 milliamperes. If a strong current is used, we have to fear the formation of scars.— The application should last no longer than five minutes in all.—Decrease the strength of the current to zero very gradually.—The operation can be repeated several times at an interval of a few days.—The batteries are the same as those used for the continuous current. They should give a 40-milliampere current at least.—Milliamperemeter and rheostat are indispensable.—The procedure is used particularly in cases of inflammatory origin.

Where there is *suppuration*: Slit the *upper* lach-rymal canal and treat as chronic dacryocystitis (91).

181. LACHRYMAL POINTS, EVERSION OF THE.

Where palpebral tissue has undergone no change bring the points back into their normal position by making a channel, the posterior wall of which is excised or cauterized.

Special treatment is necessary where the eversion is caused by conjunctival or palpebral trouble.

182. LACTIC ACID.

| Lactic acid | | | | , | 1 0 to | 3 0 | 15 gr. to 45 gr. |
|-----------------|--|--|--|---|----------|------|------------------|
| Distilled water | | | | | 10 | 00 0 | 33 33 |

183. LACTOPHENIN.

 $0\,|\,50$ to $1\,|\,0$ (8 gr. to 15 gr.) before retiring.

Lagophthalmus. See Paralysis of the Orbicular Muscle (244), and Keratitis through Lagophthalmus (168).

LANOLIN-LEAD

184. LANOLIN.

Excellent excipient for ointments; active of itself in light forms of blepharitis. Its consistence is but little modified by temperature. It is well to add a more oily body to it, for instance: Vaseline (30|0 to 40|0 to 100|0 of lanolin). Use also:

| Pure lanolin | 23 13 143 |
|---|--|
| 185. LEAD. | |
| a. Subacetate of lead 00 50 Rose water 30 00 Distilled water 120 00 | 8 gr. 13 43 |
| b. Subacetate of lead 0 50 to 2 0 Distilled water 8 0 White vaseline 10 0 Pure lanolin | $ \begin{array}{r} \frac{1}{2}3 \\ 23 \\ 2\frac{1}{2}3 \\ 2\frac{1}{2}3 \end{array} $ |
| c. Subacetate of lead | 4 gr. 23 2½3 2½3 2½3 |

d. Compresses of subacetate of lead solution.

20 drops of liquor plumbi subacetici in a bowl containing about $400 \mid 0 \ (135)$ of lukewarm water; steep pledgets of hygroscopic cotton into this solution and apply twice or more times daily on the eyes during from a half to one hour; renew pledgets every 3 minutes.

186. LEECHES, APPLICATION OF.

According to the disease and state of general health of patients: Apply 2, 3, or 4 leeches, and let the blood flow as long as desirable, according to the case.—Take a tube or vial narrow enough to permit of placing the leech just at the spot you wish. Clean this spot beforehand.—Should leeches refuse to suck: Pour 2 or 3 drops of white wine or some drops of diluted vinegar into the glass which holds them.—Usually leeches are left until they drop off.

To keep up the bleeding: Apply a linseed poultice.

To stop bleeding: Apply a piece of tinder or hæmostatic cotton upon the incision made by the leech and dust with powdered alum.

Where necessary: Tight pressure bandage.

187. LETTUCE, DISTILLED WATER OF LEAVES OF.

For soothing compresses. Can be added to the different collyria.

188. LIDS, ABSCESS OF THE.

Etiologic treatment.—Poultices (255).—Incision parallel to the free margin.—Drainage.—Compresses with sublimate (1: from 2000 to 5000).

Lids, Angioma of the. See ERECTILE TUMORS OF THE LIDS (217).

189. LIDS, ANTHRAX OF THE.

Incision in the shape of a cross, thereupon alternately poultices (255) and sublimate compresses (1:500).—Strengthening food.—Tonics.

190. LIDS, BITES OF INSECTS ON.

Iced compresses.—Repeated applications of ammonia mixed with ether or chloroform (10 a).

191. LIDS, BLACK HEADS OF THE.

Expression.

192. LIDS, BURNS OF THE.

a. Slight burns (burns of first degree, causing rubefaction only).

Finely powdered bismuth.—Linimentum calcis (223).

or:

| Hydrochlorate of c | ocaine | | | 3 0 | 45 gr. |
|--------------------------|--------|------|--------|------|---------------|
| Vaseline Distilled water | | | · } āā | 20 0 | āā 5 3 |
| Distilled water | | | . , | | |
| Lanolin | | | | 5 0 | 75 gr. |

b. More severe burns (burns of second degree, causing vesiculation).

| Hydrochlo | rat | te | of | e | oca | ain | е | | | | | | | | | 1 50 | 23 gr. |
|-----------|-----|----|----|---|-----|-----|---|---|--|---|---|---|---|---|---|-------|------------------|
| Salol | | | | | | | | | | | | | | | | 3 00 | 45 gr. |
| Vaseline. | | | | ٠ | | | | ٠ | | ٠ | ٠ | ٠ | ٠ | ٠ | ٠ | 25 00 | $6\frac{1}{2}$ 3 |

or:

Aristol ointment (18 b, c).

or:

| 01. | | | | | | | | | | | | | | | |
|-------------|----|-----|----|------|-----|----|---|--|--|--|--|--|----|----|----------------|
| Lodoform | | | | | | | | | | | | | 4 | 00 | 13 |
| Extract of | ec | ni | un | ı le | eav | es | 3 | | | | | | 2 | 00 | $\frac{1}{2}3$ |
| Carbolic ac | id | | | | | | | | | | | | 0 | 05 | 1 gr. |
| Unguentui | m | ros | at | um | ١. | | | | | | | | 30 | 00 | 13 |

Before applying any of these three ointments open the vesicles and wash carefully. c. Severe burns (burns of the third degree with destruction of tissue).

| Europhen | | | | | | | | | 3 | 0 | 45 gr. |
|-----------|--|--|--|--|--|---|--|--|---|---|--------|
| Olive oil | | | | | | , | | | 7 | 0 | 23 |
| Vaseline. | | | | | | | | | | | 23 |
| Lanolin . | | | | | | | | | | | 13 |

Renew this application but every third or fourth day.

193. LIDS, CHROMIDROSIS OF THE.

Oleaginous inunctions.—Etiologic treatment (dysmenorrhæa).

194. LIDS, COLOBOMA OF THE.

Freshen up the edges and unite carefully by numerous sutures.

Lids, Cyst of the. See HYDATID OF THE LIDS (205).

195. LIDS, CYSTICERCUS OF THE.

Excision.

196. LIDS, ECCHYMOSIS OF THE.

Pressure bandage.—Compresses with subacetate of lead solution (185 d).—Fomentations with:

| Tineture | e o | f | arı | nie | a | | | | | | | 2 | 0 | $\frac{1}{2}3$ |
|----------|-----|---|-----|-----|---|--|--|--|--|--|--|---|---|----------------|
| | | | | | | | | | | | | | | 23 53 |

197. LIDS, ECZEMA AND ACNE OF THE LIDS AND NEIGHBORING PARTS.

Systemic treatment of the scrofulous diathesis: Arsenic (20), iron (164), cod-liver oil (54), baths with bran (25 a), and sea-salt (25 d).

Forbid taking of too much food, abuse of meat and spices. Total abstinence from wine and alcohol.—Keep bowels loose.

Minute Cleanliness.—Wash head with tar soap, pluck out lashes and hairs which are about to fall out; acne pustules or pimples to be incised and squeezed out.

Prophylaxis.—Wash repeatedly with 50 per cent. alcohol, to dissolve sebaceous masses obstructing the canaliculi of the glands, having care that the alcohol does not penetrate into conjunctival sac.

Antiseptic Treatment.—Repeated compresses with sublimate (from 1:800 to 1:500).

Ointments with borie acid (30 d), ichthyol (139), naphtol (236 b), tannin (310 b), calomel (33 b), sulphur (304), gallanol (120), ointment of Hebra (130) or Pagenstecher (229).

Let the ointment remain on the lid several hours, then wipe off carefully and dust with an inert powder: Rice powder, tale, or brush the lid with:

| | | | | | | | | | | | | | | 13 53 |
|--------------------|---|-----|---|--|--|--|--|--|--|---|------|----|---|------------------|
| Salicylic | a | eid | l | | | | | | | | | 5 | 0 | 75 gr. |
| Starch Glycerin | | | | | | | | | | } | 55 | 6) | 0 | 55 17 |
| Glycerin | | | | | | | | | | } | (460 | _ | | 25 |
| Water | | | | | | | | | | | | 75 | 0 | $2\frac{1}{2}$ 3 |

In unyielding cases use one of the following ointments:

| Naphtol . | | | | | | | | | | | | 10 | 0 | | $2\frac{1}{2}$ 3 | |
|--------------|-----|----|----|---|--|---|---|---|--|---|----|-----|---|----|------------------|---|
| Precipitated | sul | фl | ıu | ľ | | ٠ | | | | | | 50 | 0 | | 13 53 | , |
| Tar soap | | | | | | | ٠ | ٠ | | 1 | āā | 20 | 0 | āā | 5 z | |
| Vaseline | | | | | | | | | | 1 | | - 1 | | | ٠.) | |

Application to remain on lids from 30 minutes to 1 hour, whereupon wash with hot water.

| Resorein | |
|--|--|
| Oxide of zinc \dots $2 \mid 0 \frac{1}{2}3$ | |
| Vaseline | |
| This ointment will not decompose; it may therefore be applied | |
| at night and replaced in the morning by cold cream or rice pow- | |
| der. | |
| | |
| Subnitrate of bismuth $\dots \dots \dots$ | |
| Oxide of zinc $\dots \dots \dots$ | |
| Glycerin | |
| Carbolic acid 20 drops. 0 20 gtt. | |
| White vaseline | |
| 3 times daily during one-half hour. | |
| | |
| | |
| Naphtol | |
| Camphor | |
| White vaseline | |
| During 15 minutes. Soothe any stronger irritation following | |
| | |
| by an oil or an emollient paste. | |
| by an oil or an emollient paste. | |
| by an oil or an emollient paste. Between each application of any of these oint- | |
| by an oil or an emollient paste. | |
| by an oil or an emollient paste. Between each application of any of these oint- | |
| by an oil or an emollient paste. Between each application of any of these ointments, dust diseased parts with an inert powder. Lotions: | |
| by an oil or an emollient paste. Between each application of any of these ointments, dust diseased parts with an inert powder. Lotions: Tincture of male fern | |
| by an oil or an emollient paste. Between each application of any of these ointments, dust diseased parts with an inert powder. Lotions: Tincture of male fern | |
| by an oil or an emollient paste. Between each application of any of these ointments, dust diseased parts with an inert powder. Lotions: Tincture of male fern | |
| by an oil or an emollient paste. Between each application of any of these ointments, dust diseased parts with an inert powder. Lotions: Tincture of male fern | |
| by an oil or an emollient paste. Between each application of any of these ointments, dust diseased parts with an inert powder. Lotions: Tincture of male fern | |
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| Between each application of any of these ointments, dust diseased parts with an inert powder. Lotions: Tincture of male fern | |
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| Between each application of any of these ointments, dust diseased parts with an inert powder. Lotions: Tincture of male fern | |

| Tumenol | | | | | | | 5 0 | 75 gr. |
|----------------------------------|---|---|---|---|---|---|---------|-----------------|
| Sulphuric ether Absolute alcohol | | | | | | Į | āā 15 0 | āā 13 |
| Absolute alcohol | | | | | | J | | uu 25 |
| Glycerin or distilled water. | • | • | | | | | 30 0 | 13 |
| Finely powdered iodoform | | | | | | | 10,00 | $2\frac{1}{2}3$ |
| Pure cocaine | • | • | • | • | ٠ | ٠ | 0 30 | 5 gr. |
| Menthol | | | | | | | 0 50 | 8 gr. |
| Spirits of lavender | | | | | | | 20 00 | 53 |

The use of these numerous therapeutic means must vary and adapt itself to the different forms of eczema.

Should the disease *persist*: Carefully cauterize with galvano-cautery or apply a mixture of equal parts of:

Tincture of iodine, Pure carbolic acid, Chloral.

In both cases use a non-irritating ointment after the applications.

198. LIDS, EMPHYSEMA OF THE.

Etiologic treatment.—Pressure.—Massage.

Lids, Epithelioma of the. See MALIGNANT TUMORS OF THE LIDS (218).

199. LIDS, ERYSIPELAS OF THE.

 ${\bf Systemic \, treatment. - Purgatives. - Antipyretics.}$

Energetic local treatment. [Danger of infiltration of the orbit on account of the laxity of tissue, and if progressive, of meningitis by immigration of streptococci passing through the veins of Santorini.]—Try to limit the erysipelas to the face by:

Injections of sublimate (1:1000, several syringefuls), compresses with carbolic acid (3:100) or sublimate (1:1000); repeated energetic washes with alcohol (90:100).—Brush with tincture of iodine (147a). From the beginning lids should be closed by adhesive plaster and any fatty substance.

According to extent, seat, and intensity: Ice, inunctions with double mercurial ointment $(291 \, b)$.— Friction with ichthyol (10:100) or with:

43

| Resorcin | | | 1 50 | 23 gr. |
|---|------|------------|---------|----------|
| or with: | | | | |
| Carbolic acid Alcohol | | · } ää | 15 0 āā | 17 25 |
| Alcohol | | ,) | | 2() |
| Spirits of turpentine | | | 30 0 | 13 |
| Glycerin | | | 50 0 | 13 53 |
| Shake this mixture | | | | 0 0 |
| or apply : | | | | |
| Flexible collodion . | | | 20 0 | . 53 |
| Flexible collodion \cdot Iodoform \cdot | | | 1 0 | 15 gr. |
| or: | | | | |
| Flexible collodion . | | | 30 0 | 13 |
| Flexible collodion . Sublimate | | | 1 0 | 15 gr. |
| During intervals d | | | | |

starch, rice.

Where there is great pain: Linimentum calcis

Where there is *great pain*: Linimentum calcis (223).

200. LIDS, FAVUS OF THE.

Pluck out all the eyelashes and even the hairs of the eyebrows.—Vigorous washes with tar soap, followed by friction with sublimate (1:400).

201. LIDS, FIBROMA OF THE.

Excision, followed where necessary by a plastic operation.

Lids, Furuncle of the. See STYE (301).

202. LIDS, FURUNCULOSIS OF THE.

Open air.—Bodily exercise.—Regulate stools.— Local treatment similar to that of blepharitis (26, 27).

Wash regularly with:

| Salicylic acid | 75 gr. |
|-------------------------------|-----------------|
| Biborate of soda 3 0 | 45 gr. |
| Distilled water 500 0 | 1 pt. |
| | |
| or with: | |
| Precipitated sulphur 3 0 | 45 gr. |
| Hydrochlorate of ammonium 1 0 | 15 gr. |
| Rose water | 13 53 |
| Spirits of camphor | $2\frac{1}{2}3$ |
| Shake solution before using. | |

In unyielding cases apply every evening on lids and between lashes:

| Spirits of camphor . | | | | | | | | | | 1 | 100 | 15 gr. |
|-----------------------|----|----|------|-----|--|--|---|------|-----|----|-------|--------|
| Precipitated sulphur | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Lime water Rose water | | | | . , | | | ſ | . 21 | lčl | 10 | oo aa | 223 |
| Gum arabic | | | | | | | | | | 0 | 20 | 3 gr. |
| Shake solution before | re | us | sino | ١. | | | | | | | | |

203. LIDS, HERPES FEBRILIS OF THE.

Inert powder: Tale, rice powder.—Where itching is great: Ointment with cocaine $(52\ b)$.

204. LIDS, HERPES ZOSTER OF THE.

Starch, tale, ointment with cocaine (52 b) or morphine (231b).—Liniment with chloroform (41 b), having care that liniment does not penetrate into cul-desac.

Galvanic current for periorbital neuralgia.—Compresses with:

| Corrosive sublimate | | | | ٠ | | 0 1 | | $2\frac{1}{2}$ gr. |
|--------------------------|--|--|--|---|--|-------|----|--------------------|
| Hydrochlorate of cocaine | | | | | | 2 ! | 50 | 40 gr. |
| Distilled water | | | | | | 100 (| 00 | 33 23 |

Systemic treatment: Antifebrin (14), antipyrin (15 a), salicylate of soda (275).

In cases in which *cornea* and *conjunctiva* are *affected*: Treat according to rules set down under the heading of Herpes of the Cornea (85) and Zona Ophthalmica (326).

205. LIDS, HYDATID OF THE.

Excision of part of the wall of the cyst.

206. LIDS, HYPERÆMIA OF.

Hygienic treatment.—Open air.—Compresses with subacetate of lead solution (185 d) or with non-irritant collyrium (29, 30 a, 185 a).—Regulate stools.

207. LIDS, IMPETIGO OF.

Systemic treatment: Cod-liver oil (54), iodides (147 b), iron preparations (164), alkalies, arsenic (20).

During *inflammatory stage* apply the following ointment as a plaster on a thin piece of linen:

| Borie acid | | | | | | | | | | 1 0 | 15 gr. |
|------------|----|------|------|-----|---|-----|--|--|--|------|--------|
| Emplastrum | hy | drai | rgyr | i e | m | 200 | | | | 5 0 | 75 gr. |
| Vaseline . | | | | | | | | | | 30 0 | 13 |

As soon as every trace of inflammation has disappeared:

| Simple lead plaster . | | | | ٠ | | | | 20 00 | 53 |
|-----------------------|-----|---|---|---|--|--|--|-------|--------|
| Oxide of red lead | | ٠ | ٠ | | | | | 2 50 | 38 gr. |
| Red sulphide of mercu | ıry | | | | | | | 1 00 | 15 gr. |

Renew every day, washing with a solution of spirits of camphor before each dressing.

208. LIDS, LIPOMA OF THE.

Excision, followed where necessary by a plastic operation.

209. LIDS, LUPUS OF THE.

Energetic scraping with the sharp spoon.—Excision.—Cauterize wound with thermo-cautery.—Plastic operation when lupus is cured.

Lids, Melanosarcoma of the. See Malig-NANT TUMORS OF THE LIDS (218).

210. LIDS, MILIUM OF THE.

Incision.—Expression.—Cauterization.

211. LIDS, MOLLUSCUM CONTAGIOSUM OF THE.

Total extraction or ablation where tumor is pediculated.

Lids, Molluscum Lipomatoides of the. See Xanthelasma of the Lids (222).

212. LIDS, ŒDEMA OF THE.

Treat the cause.—Locally: Compresses with subacetate of lead solution (185 d).

In unyielding cases: Apply flexible collodion, or brush with:

| Spirits of lave | ender. | | | } : | āā | 20 0 | āā 5 3 |
|-----------------|--------|------|------|---------|----|------|----------------|
| Spirits of rose | mary. | | | , | | | |
| Oil of lemon | | | | | | 2 0 | $\frac{1}{2}3$ |

Scarifications where other measures fail.

213. LIDS, PAPILLOMA OF THE.

Ligature.—Ablation.—Cauterization with chemicals or the thermo-cautery.

Lids, Phlegmon of the. See Abscess of the Lids (188).

214. LIDS, PHTHIRIASIS OF THE.

Energetic washes with tar soap.—Careful application of mercurial ointment.

Lids, Sarcoma of the. See Malignant Tumors of the Lids (218).

215. LIDS, SEBORRHŒA OF THE.

1. Seborrhæa sicca.

Remove the pellicles and scales hindering the regular drainage of the product of the sebaceous glands several times a day. Facilitate this cleaning by a previous application of some non-irritant ointment.—See BLEPHARITIS (26).

2. Seborrhaa oleosa.

Systemic treatment. [Often Dysmenorrhæa.]—Minute cleanliness.

Dry the lids several times a day with tissuepaper and brush with:

| Precipitated | su | ĺр | hu | .1 | | | | | | | 1 0 | 15 gr. |
|--------------|----|----|----|----|--|--|--|--|--|--|-----|--------|
| Linseed oil | | | | | | | | | | | | |

Cold (98 a) or Scottish (98 b) douches upon the nape of the neck and the vertebral column.—Wash the lids with water to which some alcohol has been added, or with cologne water.

Careful applications with juniper oil mixed with some alcohol or mitigated by olive oil (166 b), or with spirits of alkaline soap.

216. LIDS, TELANGIECTASIS OF THE.

Repeated punctures with the galvano-cautery.— Excision, followed where necessary by a plastic operation.

217. LIDS, ERECTILE TUMORS OF THE. Ablation.

218. LIDS, MALIGNANT TUMORS OF THE.

[Epithelioma, Sarcoma, Melanosarcoma.]

Radical ablation, followed by a plastic operation.—Save the smallest pieces of healthy palpebral tissue, on account of its vitality and the difficulty found to replace it.

219. LIDS, TYLOSIS OF THE.

Energetic massage upon a shell or horn plate during ½ to 1 hour with:

LIDS-LINIMENTUM CALCIS

220. LIDS, ULCERS OF THE, through Syphilis or Smallpox.

According to case: Antisyphilitic treatment (291) or cauterization.—Iodol (149 b) or aristol ointment (18 b, c).

Lids, Warts of the. See Papilloma of the Lids (213).

221. LIDS, WOUNDS OF THE.

Unite the edges of wound by suture as exactly as possible.—Antiseptic pressure bandage (101).

222. LIDS, XANTHELASMA OF THE.—XANTHOMA.

Where tumor is *small*: Cauterization with nitric or hydrochloric acid.

Where it is *large*: Multiple ligatures.—Coagulating injection [insulate diseased part by pressure].—Excision followed by a plastic operation.

Lids, Xanthoma of the. See XANTHELASMA OF THE LIDS (222).

223. LINIMENTUM CALCIS.

| Lime water Linseed oil or olive oil | · · | | } | āā | 100 00 | āā 3 3 2 3 |
|-------------------------------------|-----|--|---|----|--------|--------------------------|
| Thymol | | | | | | |

Apply to parts affected.

Linseed oil should have the preference in spite of its disagreeable odor.

LINIMENTS-MEMBRANE

224. LINIMENTS, SOOTHING.

| a. | Oil of sweet almond . Chloroform | | | | | 30 | 0 | to | 60 40 | $\begin{vmatrix} 0 \\ 0 \end{vmatrix}$ | 25 13 | to 1 | $\frac{3}{2} \frac{21}{2} \frac{3}{2}$ |
|----|----------------------------------|----|---|---|---|----|---|----|----------|--|----------|------|--|
| b. | Oil of hyoscyamus | | | | | | | | | . 1 | 100 | 0 | 3 ₹ 23 |
| | Fluid extract belladonr | ıa | | | | | | | | | 15 (| 0 | ½3 |
| | Tineture of opium | ٠ | ٠ | ٠ | ٠ | ٠ | ٠ | | | • | 10](| 0 | $2\frac{1}{2}3$ |

Linseed Meal. See Poultices (255).

225. LITHIUM.

| a. Salieylate of lithium Sugar of milk | · } áā 1 0 áā 15 gr. |
|---|----------------------|
| One powder. To be taken in a hal bonated water. Four powders a day. | |

b. Lithia water.

| Carbonate of lithium | | | | | ٠ | ٠ | 110 | 15 gr. |
|-----------------------|------------|----|--|--|---|---|--------|--------|
| Carbonated water | | | | | | | 1000 0 | 2 pts. |
| To be taken in two de | αy | s. | | | | | | • |

226. LOSS OF THE EYELASHES.

| Gallie acid | | | 4 | | | | 0 50 | 8 gr. |
|--|--|--|---|--|--|--|----------|----------------|
| Oil of lavender. Castor oil Vaseline | | | | | | | 4 drops. | 4 gtt. |
| Castor oil | | | | | | | 2 00 | $\frac{1}{2}3$ |
| Vaseline | | | | | | | 5 00 | 113 |

Lunar Caustic. See NITRATE OF SILVER (287 b).

Malt. See Extract of Malt (115).

227. MEMBRANE, PERSISTING PUPIL-LARY.

Where membrane is very thick: Iridectomy.— Otherwise refrain from any interference.

MENTHOL-MERCURY

228. MENTHOL.

| a. Menthol | | | | | | 0 75 | 12 gr. |
|--------------------------|----|--|--|--|--|------|--------------------|
| Hydrochlorate of cocaine | е. | | | | | 0 25 | 4 gr. |
| Chloral hydrate | | | | | | 0 15 | $2\frac{1}{2}$ gr. |
| Vaseline | | | | | | 5 00 | 143 |

It is also used in the form of:

b. Pencils.

For local applications.

229. MERCURY.

Pagenstecher's Ointment = Yellow Oxide Ointment.

a. Yellow oxide of mercury . . . 0 | 20 to 0 | 50 $\,$ 3 gr. to 8 gr. White vaseline 10 | 00 $\,$ 2 $\frac{1}{2}$ 3

Apply to border of lids in the morning; wipe off carefully after one hour.

b. Yellow oxide of mercury \cdot , \cdot , $0 \mid 10$ to $0 \mid 20$ $1\frac{1}{2}$ gr. to 3 gr. White vaseline \cdot , \cdot , \cdot , $10 \mid 00$ $2\frac{1}{2}$ 3

Triturate thoroughly before mixing and add vaseline gradually. Introduce into cul-de-sac.—Where ointment irritates: Add 0\1 to 0\2 of poplar-tree charcoal (36) to it.

Red Oxide Ointment.

c. Red oxide of mercury $0 \mid 10$ to $0 \mid 20$ $1\frac{1}{2}$ gr. to 3 gr. White vaseline $10 \mid 00$ $2\frac{1}{2}$ 3

To be used as above.

White Precipitate Ointment.

 d. White precipitate of mercury
 0 | 50
 8 gr.

 White vaseline
 10 | 00
 2½3

 Apply to border of lids.

20 drops of the tincture of benzoin can be added to these ointments, or the simple vaseline can be replaced by benzoinated vaseline [made with gum, not with tincture].

MERCURY

| e. Salicylate of mercury 0 40 Tincture of opium 10 drops. Extract of gentian, q. s. For 20 pills; 2 to 3 pills a day. | 6 gr. 10 gtt. |
|--|---|
| f. Protiodide of mereury | 15 gr. 5 gr. |
| g. Tannate of mercury | 45 gr. |
| All these pills are taken with or after meal | ls. |
| h. Oxieyanide of mercury | 15 gr. 31 3 |
| i. Biniodide of mereury | 1 3 2 pts. |
| k. Biniodide of mercury | 1½ gr. 1¼3 1¼3 83 com 4 to v-born: |
| l. Cyanide of mercury | al cases |

97

METHYL-MORPHINE

| The cyanide | of mercury | does not | coagulate a | lbumen |
|----------------|--------------|------------|-------------|--------|
| and remains so | duble in the | e tissues. | | |

| m. Benzoate of mercur | y . | | | | | | | | | 0 | 20 | | 3 gr. |
|-----------------------|------|---------|----|-----|----|-----|----|---|----|----|----|----|-------|
| Chloride of sodium | | | | | | | | | | | | | 3 gr. |
| Hydrochlorate of e | ocai | ne | | | | | | ٠ | | 0 | 05 | | 1 gr. |
| Distilled water | | | | | | | | | | 20 | 00 | | 53 |
| Daily dose: one (| Pra | vaz) | 83 | yri | ng | efu | l. | | | | | | |
| n Pentone | | | | | | | , | | | | | | |
| n. Peptone | nmc | mia | | | | | | } | āā | 0 | 30 | āā | 5 gr. |
| Corrosive sublimate | | | | | | | | | | | | | 3 gr. |
| Glycerin | | | | | | | | | | | | | 11/3 |
| Distilled water | | | | | | | | | | 15 | 00 | | 1 Z Z |
| Daily dose: one (| Pra | vaz) | 87 | ıri | na | efu | l. | | | | | | - 17 |

Bichloride of Mercury and Peptonate of Mercury. See Sublimate (302).

Mild Chloride of Mercury. See Calomel (33). Simple Mercurial Ointment. See MERCURIAL INUNCTIONS (143).—Double Mercurial Ointment. See Specific Treatment (291 b).

Methylacetanilid. See Exalgin (114).

230. METHYL, IODIDE OF.

Local application as a vesicant in neuralgia.

231. MORPHINE.

| a. Hydrochlorate of | morp | hine | | | | | 0130 | 5 gr. |
|---------------------|-------|------|----|-------|----|-------|-------|-----------------|
| White vaseline . | | | | | | | 6 00 | $1\frac{1}{2}3$ |
| Introduce under | · the | lids | in | cases | of | corne | al ul | cerations |
| with violent pains. | | | | | | | | |

| b. Hydrochlorate of morphine | | | | ٠ | 210 | 13 |
|------------------------------|--|--|--|---|-----|----|
| Benzoinated lard | | | | | | 13 |
| Soothing ointment. | | | | | | Ü |

MUSCÆ VOLITANTES

c. Hydrochlorate of morphine $0 \mid 10 - 1\frac{1}{2} \text{ gr.}$ Spirits of peppermint $1 \mid 00 - 15 \text{ gr.}$ Distilled peppermint water . . . $10 \mid 00 - 2\frac{1}{2}3$ One swringe = $0 \mid 01$ of morphine.

This solution is less subject to changes than those generally in use, still it is better to dissolve 0 | 01 († gr.) of the hydrochlorate of morphine in one cubic centimetre of sterilized water immediately before injection.

In case of morphine poisoning: Hypodermic injection of $0|001\left(\frac{1}{60}\text{ gr.}\right)$ of the neutral sulphate of atropine $\left[\frac{2}{10}\right]$ of a (Pravaz) syringeful of the ordinary collyrium (23 a)].—Where necessary, a second injection can be made at the end of 15 minutes, and even a third one after 30 minutes.

Inhalations of amyl nitrite (11).

Internally: Strong coffee, brandy, volatile salt (10 b).

Artificial respiration, massage, and friction of the body.

Muriatic Acid. See FOOT-BATHS (118).

232. MUSCÆ VOLITANTES.

Are often without signification; often due to overwork or some change of the deeper structures of the eye.

Rest.—Glasses correcting astigmatism and relieving accommodation.—In the bright light: Blue or smoked glasses.—In case of exudations in the vitreous, see Choroiditis (47), Retinitis (271).

Muscarin. See Myotics (235).

Mustard. See Medicated Foot-baths (118) and Sinapisms (288).

Mustard Paper. See SINAPISMS (288). Mustard Plaster. See SINAPISMS (288).

233. MYDRIATICS.

[Dose and directions for use, see Atropine (23), Homatropine (133), Duboisine (102), Scopolamin (284), Cocaine (52), and Instillations of Collyria (141)].

They are poisonous.—Dilate the pupil.—Increase intraoeular tension [scopolamin is perhaps the only exception].—Paralyze the aecommodation.

For aseptic or antiseptic purposes 1|0 to 2|0 (15 gr. to $\frac{1}{2}3$) of a 1:1000 sublimate solution can be added to 10|0 of collyrium.

To obtain the *greatest possible effect*, the *pure salt* can be introduced, care being taken to compress the lachrymal passages so as to avoid poisonous effects.

In *small children* it is best to prescribe mydriatics in the form of an *ointment*.

- a. Atropine (23). Mydriatic the most in use.— Very powerful.—Very poisonous.—Mydriasis lasts long.—Sometimes not tolerated by conjunctiva.
- b. Homatropine (133). Action is more prompt but weaker.—Less poisonous.—Shorter mydriasis.
- c. Duboisine (102). Is used where conjunctiva will not tolerate atropine, alone or also in combination with atropine and cocaine.
- d. Seopolamin (284). Prompt and energetic action.—Limited duration of the paralysis of accom-

modation.—Very little poisonous.—Hardly increases intraocular tension.

It is indicated particularly where a tendency to an increased tension exists in cases of short duration and for determining refraction.

- e. Cocaine (52). Very weak mydriatic action.— Adds to the effect when given in combination with other mydriatics.
- f. Hyoscine and hyoscyamine have been abandoned on account of their uncertain action.

234. MYOPIA.

Patient hardly ever tolerates permanently the glass completely correcting his myopia; that is, the glass which gives him the best vision in the distance. A weaker glass giving him sufficient vision for distance is therefore to be preferred.

It is nearly always better for a myope to use no concave glasses for near vision. Myopia of a slight degree can even require convex glasses, particularly in myopes of mature age.—Where work demands a distance beyond that of the far point of the myope he should use the glass representing the difference between his myopia and the denominator of the working distance. For instance, let working distance be 50 cm. $=\frac{1}{2}$, the denominator, that is,

the corresponding refraction, is equal to 2 D. A myope of 5 D will receive No. 5-2=3 D to see at this distance; a myope of 7 D, the concave glass 7-2 = 5 D.

Myopes of a very high degree generally prefer to 101

use one eye alone for near work, renouncing binocular vision, whereby they have the advantage of larger retinal images.—The physician should recommend that patient does not get nearer to his work than the distance corresponding to the glass prescribed.

Prophylaxis and hygiene of myopes: From early childhood avoid fatiguing the eyes, even in the choice of playthings.—Moderate reading, good light, daylight by preference.—Good print. large letters, black on a white background, short lines.—Keep as far away as possible from object at which you look.—Avoid bending head forward too far.—Lean against back of chair in reading, write upon an inclined plane.—Light in reading should come from behind; from the left side and from above in writing.—Interrupt work frequently.—Avoid congestions to the head [constipation, excesses at meals, cold feet, tight clothing, sitting close to the lamp, etc.].—Room should be well ventilated, and work never be taken up immediately after a meal.

Strengthen the general health, exercise in the open air, gymnastic exercises.—Rest for the eyes, sojourn in the country.

Compare also Spasm of the Accommodation (2) and Sclero-choroiditis (47).

235. MYOTICS.

[Dose and directions for use, see Eserine (111), PILOCARPINE (251), and INSTILLATION OF COLLYRIA (141).]

Contract the pupil.—Lessen intraocular tension.—Are poisonous.

Collyrium is kept aseptic and its action is not modified by adding 1 cc. of a 1 : 1000 sublimate solution to 10 | 0 of the collyrium.

To get the greatest effect possible the pure salt can be introduced, care being taken to compress lachrymal passages.

- a. Eserine (physostigmine) (111). Active myotic, somewhat irritating to conjunctiva.
- b. Pilocarpine (251). Less active but better tolerated by conjunctiva.—Particularly indicated in cases lasting some length of time.
- c. Muscarine has been abandoned on account of its uncertain action.

236. NAPHTOL.

Naphtol α is more irritating than, but has twice the antiseptic strength of, naphtol β .

| α. | Naphtol a Distilled w | | | | | | | | |
|----|-----------------------|--|--|--|--|--|--|--|--|
| | Naphtol a Lanolin | | | | | | | | |

237. NEURALGIA OF THE FIFTH NERVE.

Laxatives.—Foot baths (118).—Galvanic current [positive electrode applied upon the painful part.]

Locally: Heat.—Massage and friction with: Spirits of camphor, soothing liniments (224), menthol pencil (228b) or ointment (228a), iodide of

methyl (230).—Mustard plaster (288) or a vesicant applied at nape of the neck.

Internally: Antipyrin (15 a), antifebrin (14), gelsemium (121), phenacetin (248).

In severe cases: Hypodermic injection of morphine (231 e), of antipyrin (15 b), or of osmic acid (245).—Alternating hot and cold applications followed by energetic massage.—Neurectomy.

238. NEURITIS, OPTIC.—PAPILLITIS.— INTRABULBAR NEURITIS.—PAPILLARY STASIS.—NEURO-RETINITIS.—PERINEURITIS.

Treat the cause (meningitis, tumors, abscesses, etc.).—Combat circulatory troubles (dysmenorrhœa, etc.).

In fresh cases: Derivatives.—Dark room.—Pressure bandage. — Mydriatics (233). — Bloodletting (186) at the mastoid process.—Sweating (305).—Drastic cathartics.

Later: Dry leeches.—Preparations containing iodine (147 b).—Foot-baths (118).

In the regressive stage: Strengthening treatment.—Eye-douches (99).—Galvanic current.—Sojourn in the country.

Avoid: Sudden changes from a mild light into a bright light, congestions to the head, and excitement.

For those suffering from rheumatism: Alkalies (lithium (225), etc.); for scrofulous and anamic patients: Iron (164), arsenic (20); for syphilitic patients: Specific treatment (291).

239. NEURITIS, RETRO-BULBAR.

Rest, light diet.—Energetic inunctions with mercury (143) during three weeks; where cases then remain unimproved, cease.—Bloodletting (186), footbaths (118), derivative treatment.—Iodide of potassium (146 b, c), strychnine (300).—Diuretics, diaphoretics (305).

Nitrate of Silver. See SILVER (287).

240. OCCLUSIO PUPILLÆ.

Iridectomy or iridorrhexis.

Oil, Castor. See OLEUM RICINI (274).

Ointment, Blue = Simple Mercurial Ointment. See MERCURIAL INUNCTIONS (143).

Ointment, Calomel. See CALOMEL (33 a, b).

Ointment, Neapolitan = Double Mercurial Ointment. See Specific Treatment (291 b).

Ointment, Red. See MERCURY (229 e).

Ointment of Unna. See PEROXIDE OF HYDROGEN (135).

Ointment, Yellow. See MERCURY (229 a, b).

Ophthalmia of the New-Born. See Blen-NORRHEAL CONJUNCTIVITIS (69).

241. OPHTHALMIA, SYMPATHETIC.

Ennelection of the eye first affected and excision of part of the optic nerve, followed by an irrigation with a sublimate solution (1 to 2 per 1000) during five minutes.

Should the eye first affected not be amaurotic and the other eye already much diseased: Symptomatic treatment: Narcotics. — Atropine (23 a). — Dark

OPIUM-OPTIC NERVE

room; absolute rest.—Iced compresses or hot poultices (255), according to the state in which the eye is.—Diuresis and diaphoresis (305.—Mercurial treatment (143, 291 b).

242. OPIUM.

- a. Extract of opium 0 | 20 3 gr. Distilled water 100 | 00 $3\frac{3}{4}$ $\frac{3}{5}$ Several instillations a day, 1 drop at each instillation.
- b. Tincture of opium 10 | 0 2½ z

 10 to 20 drops at a time in brandy or upon a piece of sugar.

 A little water to be swallowed afterwards.
- c. Extract of opium $0 \mid 02$ to $0 \mid 06 = \frac{1}{3}$ gr. to 1 gr. Subnitrate of bismuth $\frac{1}{3}$ āā $0 \mid 5$ āā 8 gr. $\frac{1}{3}$ Sugar of milk

A powder; take two powders like this, the first one 11-2 hours, the second 1 hour before cataract operation.

243. OPTIC NERVE, ATROPHY OF THE.

Careful anamnesis and appropriate general treatment.

In the beginning of the atrophy: Injections of strychnine (300 a); iodide of potassium internally (146 c) and in inunctions (146 a, b).—Should there be no improvement after several weeks: Cease this form of treatment so as not to harm the general health, as the resulting benefit to vision is very problematical.

Preparations containing *iodine* (147 b) or *iron* (164).—*Hydrotherapy*. Douches in a stream along the spinal column.—Prolonged applications of heat or cold upon the vertebral column.—Sojourn in a

ORBICULAR MUSCLE-PARALYSIS

warm climate.—Sweating (305).—Massage of the eyeball.—Galvanic current.

In case of syphilis: Specific treatment (291).

244. ORBICULAR MUSCLE, PARALYSIS OF THE.—LAGOPHTHALMUS.

Etiologic treatment. — Electricity. — Surgical treatment. — Compare also Keratitis through Lagophthalmus (168).

245. OSMIC ACID.

| Osmic acid | 000 | 1 gr. |
|----------------------------------|-------------------------------------|------------------|
| Distilled water . | 10 00 | $2\frac{1}{2}$ 3 |
| For hypodermic | injections: One syringeful contains | 0 005 |
| $(\frac{1}{10} gr.)$ osmic acid. | Keep from light. | |

Ozæna. See Rhinitis (273).

Pagenstecher's Ointment. See MERCURY (229 a, b).

Pannus. See Pannous Keratitis (172).

Panophthalmitis. See Suppurative Chorolditis (48).

246. PARALYSIS AND PARESIS OF THE OCULAR MUSCLES.

Etiologie treatment.

In case of *rheumatism*: Large doses of salicylate of soda (275).—Sudorifies (305).

In case of *syphilis*: Energetic specific treatment (291).

Electricity: a. In paralysis of peripheral origin: Galvanization. The positive pole is a broad plate.

which is placed upon the neck or the arm. The negative pole has an ovoid form well adapted to the shape of the closed eye. A more circumscript effect is achieved by the use of lentiform electrodes. These should be well insulated with varnish and caoutchouc with the exception of one surface. The eye having been cocainized, the electrode is placed upon the globe directly as far as possible along the position of the diseased muscle. Duration of application one minute for each single muscle. b. In paralysis of central origin: Faradization of the brain may be tried. The electrodes are to be applied upon opposite sides of the head.

Should diplopia trouble the patient: Prisms, if the images are near enough to each other to be united by this means, which is rarely the case: opaque glass, where distance between images is too great to unite them.

Where above-named treatments give little or no result: Surgical intervention. Give patient binocular vision, at least in a part of the visual field, by a comprehensive advancement of the muscle combined with a tenotomy of its antagonist.

Paralysis of the Orbicular Muscle. See OR-BICULAR MUSCLE (244).

247. PERMANGANATE OF POTASSIUM.

Permanganate of potassium . . 0 | 05 to 0 | 50 1 gr. to 8 gr. 200 00 63 43 Distilled water

This solution should not be used after it changes in color.

Peroxide of Hydrogen. See Hydrogen (135). 108

248. PHENACETIN.

| Phenacetin . | | | | | | | 1 == 01=0 | 0 |
|-------------------------------|--|--|--|--|--|--|-----------|------|
| Phenacetin . Sugar of milk | | | | | | | } aa 0/50 | ogr. |
| From 1 to 3 | | | | | | | | |

249. PHENOL.—CARBOLIC ACID.

| a. Phenol | | | | | | | | | | | 0 20 | 3 gr. |
|-----------|-------|----|----|---|--|--|---|--|--|--|-------|-----------------|
| White | vasel | in | е. | • | | | ٠ | | | | 10 00 | $2\frac{1}{2}3$ |

c. Phenosalyl. Mixture of carbolic acid, salicylic acid, lactic acid, menthol, and oil of eucalyptus. Takes the place of carbolic acid; is of greater antiseptic strength.

It is used in the following proportions:

c'. 1:100 for instruments.

c". 4:1000 for the conjunctiva.

Phlyctæna of the Conjunctiva and of the Cornea. See Phlyctenular Keratitis (173).

250. PHTHISIS OF THE EYEBALL.

Prothesis.—In case of persisting inflammatory symptoms: Enucleation.

As the phthisical eye is an organ which has kept its vitality, one must never forget telling patients that such an eye is a *permanent danger for the other eye* (ossification, cicatricial enclosure of the ciliary nerves, etc.).

Physostigmine. See Eserine (111).

PILOCARPINE—POULTICES

251. PILOCARPINE.

| Hydrochlorate of pilocarpine | | | | |
|-----------------------------------|------|--|-------|-----------------|
| Distilled water | | | 10 00 | $2\frac{1}{2}3$ |
| Instil 1 drop several times a day | | | | |

Pilocarpine *internally* and in *hypodermic* injections, see Methodical Sweating (305).

Poisoning by pilocarpine, see Methodical Sweating (305).

252. PINGUECULA.

The pinguecula may be left without any treatment, or can be removed for cosmetic purposes.

253. PLANTAIN.—AQUA PLANTAGINIS.

Soothing compresses; can be added to the different collyria.

Plaster of Mustard. See SINAPISM (288).

Poisoning by Atropine. See Atropine (23); by Morphine, see Morphine (231); by Pilocarpine, see Methodical Sweating (305).

254. POTASSIUM ACETATE.

| Acetate of potassium | | | | | | 4 0 | 13 |
|----------------------|--|--|--|--|--|--------|--------|
| Oxymel of squill | | | | | | | |
| Distilled water | | | | | | 1000 0 | 2 pts. |

Drink in one day; a wineglassful at a time.

255. POULTICES.

a. Potato starch poultices.

Dissolve starch in a quantity of water just sufficient to make a paste; upon this paste pour boil-

PRESBYOPIA

ing water, stirring briskly, until the mixture is transparent and homogeneous. This mass is kept over the fire for 30 seconds, then wrapped in two squares of muslin which have been steeped in water previously in order to remove stiffness.—Heat the reserve poultice constantly in the waterbath while the other remains on the eye; change as soon as it begins to get cool.—Cover the poultice with a piece of flannel and a piece of oiled silk overlapping the poultice on all sides.

For antiseptic purposes boric acid (4:100) or sublimate (1:5000) can be used to dissolve the starch. Proceed in a *similar manner* for:

- b. Linseed poultices.
- c. Bread or bread and bran poultices.

Where pains are very severe:

| | v | |
|----|---|----------------------------------|
| d. | Powdered hyoscyamus leaves 30 0 | 13 |
| | Linseed-meal | 33 23 |
| | or: | |
| e, | Powdered conium leaves 40 0 | $1\bar{3}$ $2\frac{1}{2}\bar{3}$ |
| | Powdered belladonna leaves 20 0 | 53 |
| | Water | 2 pts. |
| | Reduce one-fourth by boiling. Add linseed-meal q. | 8. |

For dry poultices:

| f. | Aromatic | leaves, |
|----|----------|---------|
|----|----------|---------|

or:

| g. | Conium leaves | | | | ٠ | | | 50 0 | 15 53 |
|----|---------------------|--|--|---|---|--|--|--------|-------|
| | Species emollientes | | | ٠ | | | | 150 0 | 53 |

256. PRESBYOPIA.

Where by presbyopia is understood an incapacity of prolonged eye-work, due to age on account of

PTERYGIUM-QUININE

the diminution of the amplitude of accommodation, the following table will show approximately the convex glass necessary to an emmetrope for reading at a distance of 30 cm.:

| Years. | Diopters. |
|--------|-----------|
| 40 | 0.25 |
| 45 | 1.0 |
| 50 | 1.5 |
| 55 | 2.0 |
| 60 | 2.5 |
| 65 | 3.0 |
| 70 | 3.5 |

These numbers obtain for the emmetropic eye. The *hypermetrope* should *add* to the number corresponding to his age the lens correcting his hypermetropia, while the *myope* should *subtract* the glass correcting his myopia.

Work nearer by necessarily requires a stronger glass; farther off, a weaker one. Compare: Rules for prescribing glasses for work (125).

257. PTERYGIUM.

Ablation by any method permitting the bringing in contact of the margin of the cornea with healthy conjunctiva.—Cauterize the corneal wound.

258. PTOSIS.

Systemic treatment. — Electricity. — Surgical treatment.

259. QUININE.

a'. Wine of Calisaya bark.

Small glassful with meals.

RESORCIN—RETINA

| a". Wine of Calisaya bark and iron 10 | 00 213 |
|--|----------------------|
| | 50 40 gr. |
| Malaga wine 2000 | 0 |
| | |
| | 00 73 |
| Tablespoonful 2 or 3 times a day. | |
| b. Decoction of Calisaya bark 20 | 0 53 |
| Water | 0 73 |
| Syrup of bitter orange peel 30 | |
| White boiling add: | · · |
| V | 50 9 cm |
| Diluted sulphuric acid 0 | 50 8 gr. |
| (In order to keep draught clear.) | |
| Tablespoonful 3 times a day. | |
| c. Sulphate of quinine 0 | 50 8 gr. |
| A powder. Take one powder every 2 or every | 4 hours. |
| Antipyretic. | |
| Antipyrenc. | |
| | |
| 260 RESORCIN. | |
| 4 Posovojn | 0 15 gr. |
| a. Resorcin | _ |
| Vaseline | $ 0 	 2\frac{1}{2}3$ |
| Resorcin spray: | |
| b. Resorcin | 0 113 |
| | 40 |
| Distilled water 1000 | o z pis. |

261. RETINA, ANÆMIA OF THE.

Systemic treatment [chlorosis, anamia (164, 259), leucæmia, diseases of the heart].—Massage of the body and gymnastic exercises.—Hydrotherapy (98).

262. RETINA, ANÆSTHESIA OF THE.

Dark room; after the sixth day increase light gradually.—Later, smoked or blue glasses.—Absolute rest of the eyes for a long time.—Tonics.—

113

8

Bromides (31), lactate of zinc (325 d).—Hydrotherapy (98), salt and iron baths (25 c, d, e).—Inhalations of amyl nitrite (11).—Galvanic and faradic current.

Treat the cause [hysteria].—Suggestion.

263. RETINA, ASTHENOPIA OF THE.

Treatment for neurasthenia: Scottish douches (98 b), river baths, sojourn in the mountains or at sea-shore.

Stop sexual excesses (onanism) and excesses at table.—Smoked glasses.

Where photophobia is great, blow anæsthetic vapor into the external auditory canal.

264. RETINA.—"COMMOTIO RETINÆ."

Rest.—Dark room.—Cold compresses.

265. RETINA, DETACHMENT OF THE.

Dark room.—Atropine (23 a).—Remain in bed, lying upon the back, if possible (get up every other day for an hour or two, but during this time lie down on a lounge).—Avoid sudden movements.

Pressure bandage; change the bandage once or twice a day.

According to the general health of the patient: Every 5 days *bloodletting* (186) or dry leeches behind the ear.

Food that is easily digested, particularly milk.—No hard food requiring mastication.—Watch the stools.—Derivative and diaphoretic treatment (305).

Follow out this treatment for several weeks.—

Patient will slowly take up his habitual life, and should wear smoked or blue glasses for a long time.

Where there is no notable improvement: Try one of the following operative procedures:

Puncture or incision at the meridian of the sclera on a level with the detachment.—12 to 15 small eauterizations over the whole surface of the sclera corresponding to the detachment (avoid the ciliary zone); or electrolysis: A platin-iridium needle is attached to the positive pole. The negative electrode is placed upon the arm. The needle is introduced at the place of the detachment.—Current of 3 to 5 milliampères.—Duration of application: One minute.—Aseptic bandage.

In all of these methods of treatment a chance for improvement lies only in fresh cases and where the detachment is not too great in extent.

Prophylaxis: Individuals predisposed to a detachment of the retina, as myopes of a high degree, or those having already lost one eye through retinal detachment, should avoid sudden movements, congestions, constipation, strains, coughing, vomiting, overwork for the eyes, etc.

266. RETINA, HEMORRHAGES OF THE.

Systemic treatment [pernicious anamia, diseases of the heart, nephritis], and treatment of the direct cause [congestions, indigestion; excitement, overwork, menstrual troubles].

Pressure bandage.—Absolute rest.—Cold compresses.—Bloodletting (186).—Foot-baths (118).—

Diuresis, cathartics, diaphoretics (305).—Iodide of potassium (146 c).

In diabetes: Strict diet: no sugar, no starch, saccharine, specially prepared bread.—Exercise of the body.—Arsenie (20).—Vichy water.

In case of frequent *relapses*: Ergot (109), to increase the tonus of the blood-vessels.

267. RETINA, HYPERÆMIA OF THE.

Treat the systemic trouble (anomalies of circulation, emphysema, etc.).—Rest the eyes [no mydriatics increasing hyperæmia of the fundus but rather myotics (235)].—Smoked glasses or dark room for some length of time.

Purgatives.--Bleeding (186) behind the ear.— Periodical and prolonged *cold applications* (compresses or ice-bag).

268. RETINA, HYPERÆSTHESIA OF THE.

Rest.—Dark room, later smoked glasses, the tint of which should be diminished gradually.—Where there is astigmatism correct it.

Systemic treatment for anamia, chlorosis (164, 259), and the neuroses, which are often the cause of this affection.

269. RETINA, ISCHÆMIA OF THE.

Combat spasmodic interruption of the circulation by eye-douches (99) or alternate hot and cold compresses.—Absolute rest, dark room.—Digitalis (96), amyl nitrite (11).—Tonics, stimulants.

270. RETINA, TUMORS OF THE.

[Glioma, gliosarcoma, etc.] Enucleation.

271. RETINITIS, DIFFUSE, Exudative, Punctated, Specific, Albuminuric, Diabetic, Leucæmic.

Treat the systemic disease.

In the *beginning*: Absolute rest in a dark room.—Henrteloup or leeches behind the ear (186), where general health of patient permits.—According to the constitution of patient: Iodide of potassium (146), mercury (229) or iron (164), quinine (259).—Mild purgatives.

Later: Smoked glasses; avoid sudden change from darkness to bright light.—Strengthening food, tonics, sojourn in the country or at the sea-shore.—In unyielding cases: Try repeated paracentesis.—When cured: Correct anomalies of refraction before permitting return to work.—Continue treatment, and long after re-establishment of vision take great care of the eyes.

272. RETINITIS PIGMENTOSA. — PIG-MENTARY DEGENERATION OF THE RETINA.

No form of treatment is effective.—To retard development: Strengthening food.—Cod-liver oil (54).—Hydrotherapy (98).—Where the eyes are very sensitive to light: Dark glasses.

Retinitis, Purulent. See Purulent Chorolditis (48).

RHINITIS

273. RHINITIS, CHRONIC.

F

Treat the *cause* [syphilis (291), scrofula, polyps]. *Minute cleanliness*.—Open air.—Good ventilation, particularly in the bedroom.

| Spray the | no | se | wi | itl | ı a | S | ol | ut: | ion | c | on | si | stin | g | of: | |
|-----------------|-----|----|----|-----|-----|---|----|-----|-----|---|----|----|------|---|-----|------------------|
| Peppermint wa | ter | | | | | | | | | | | | 100 | 0 | 33 | $2\frac{1}{2}$ 3 |
| Distilled water | | | | | | | | | | | | | 200 | 0 | 63 | 53 |
| Hycerin | | | | | | | | | | | | | 30 | 0 | 13 | |

Nasal douches (100) with boric acid (4:100), permanganate of potassium ($\frac{1}{2}$ to 1:1000), or salt water (physiological solution 6 to 7:1000). In case of ozena: Thymol ($\frac{1}{2}$:1000) or:

| Salicylic acid | | | | | | | 210 | $\frac{1}{2}3$ |
|---------------------------------|--|---|--|--|--|--|-------|----------------|
| Salicylic acid Biborate of soda | | | | | | | 3 0 | 45 gr. |
| Distilled water . | | ٠ | | | | | 200 0 | 63 43 |

Where there is *little secretion*: Prolonged inhalation of the steam of a saturated salt water solution. After each steaming use one of the following ointments:

| White precipitate of mercury 0 50 | 8 gr. |
|---|-------|
| Cold cream | 63 |
| or: | |
| Sulphate of zinc 0 20 | 3 gr. |
| Vaseline | 53 |
| Every other day physician should apply: | |
| Pure iodine | 3 gr. |
| Iodide of potassium 0 30 | 5 gr. |
| Glycerin | 13 |
| to the nasal mucous membrane. | |

Where *secretion* is *copious* use one of the following powders as a snuff:

RICINI SALOL

| RICINI SALOL |
|---|
| Finely powdered betol 2 50 38 gr. Menthol 0 25 4 gr. Pure eoeaine 0 10 1½ gr. Ground roasted coffee 1 50 23 gr. |
| Salicylate of bismuth |
| 274. RICINI, OLEUM.—CASTOR OIL. 1 to 2 tablespoonfuls. [Lemon juice may be added.] |
| 275. SALICYLATE OF SODA. Salicylate of soda. 6 0 1½3 Distilled orange flower water 5 āā 60 0 āā 23 Distilled peppermint water 30 0 13 Simple syrup 30 0 13 Tablespoonful every two hours. |
| 276. SALICYLIC ACID. Salicylic acid |
| 277. SALIPYRIN. Combination of salicylic acid and antipyrin.—In powders of 0 5 (8 gr.). From 1 to 4 powders a day. |
| 278. SALOL. Salol |

279. SCLERA, SUBCONJUNCTIVAL RUP-TURE OF THE.

Absolute rest.—Pressure bandage.—Ice.

280. SCLERA, BENIGNANT TUMORS OF THE.

Expectant treatment.

281. SCLERA, MALIGNANT TUMORS OF THE.

Enucleation.

282. SCLERA, PENETRATING WOUNDS OF THE.

Suture the conjunctiva over the scleral wound.— Stitch at some distance from edge of wound so as to form a tampon of conjunctival tissue.

Where there is prolapse of the choroid coat: Replace it or cut it off (the latter measure is the safer).—Pressure bandage.—Strict antisepsis.—Absolute rest.

283. SCLERITIS.

Local treatment as in episcleritis (108), more or less energetic according to time of subsistence and intensity of inflammation.

Should this treatment not suffice: Leeches (186) at the temples.—Galvano-cautery or deep scarifications, followed by the instillation of a weak solution of eserine (111) or cocaine (52 a), and a dry bandage kept upon the eye night and day.—Galvanic current through a solution of salicylate of

lithium [1 to 2: 100], in which the eye is bathed for 5 minutes every other day.—During intervals: Dry heat or hot fomentations.—Foot-baths (118).

Treatment for *gout* and *rheumatism*: Salicylate of soda (275), antipyrin (15 a), antifebrin (14), tineture of aconite [20 to 30 drops a day as a draught], salicylate of lithium (225 a).

All inflammatory symptoms having disappeared, assist resorption by: Hydrotherapy (98).

Methodical sweating (305).—Compresses with:

| methodical sweating (303).—Compresses with | |
|--|----|
| Oil of turpentine | 73 |
| Yolk of one egg, Emulsify with a | |
| Chamomile infusion | 03 |
| Spirits of camphor | 73 |

284. SCOPOLAMIN.

| Hydrobromate (or hydrochlorate) | | |
|------------------------------------|-------|------------------|
| of scopolamin | | 00 |
| Distilled water | 10 00 | $2\frac{1}{2}$ 3 |
| Instil 1 drop several times a day. | | |

Scotoma, Scintillant, with Objective Symptoms. See Synchisis (307).

285. SCOTOMA, SCINTILLANT, WITH-OUT OBJECTIVE SYMPTOMS.

Tonics, good nourishment.—Avoid overwork.— Stop use of tobacco and of anything which can hinder digestion.—Antipyrin (15 a), quinine (259), caffeine [up to 1 | 0 a day].—Galvanic and faradic current.—Pressure on the suborbital nerves.—Repeated massage of the eyeball.—Suggestion.

Correct anomalies of refraction (particularly astig-

matism) and of the accommodation.

Treat hemicrania, anæmia, dyspepsia, and other troubles, which generally accompany scintillant scotoma.

286. SECLUSIO PUPILLÆ.

Iridectomy.—Iridorrhexis.

287. SILVER, NITRATE OF.

- a. Nitrate of silver 0 | 05 $\frac{5}{6}$ gr. Distilled water 10 | 00 $2\frac{1}{2}$ 3 After instilling the collyrium neutralize with salt water. Keep solution from the light.
 - b. Nitrate of silver pencil.
 Pure nitrate of silver pencil (lunar caustic).
 Mitigated nitrate of silver pencil. Either:

288. SINAPISM.

Dissolve mustard meal in barely lukewarm water and apply directly upon the skin.—Never use boiling water, vinegar, or acids.—Where *immediate effect* is desired use mustard paper.

Soothing Liniment. See LINIMENTS (224).

289. SPASM OF THE ORBICULAR MUSCLE, Tonic and Clonic.

Correct anomalies of refraction.—Treat existing conjunctivitis (70, 73, 78).

Smoked glasses, or dark room.—Leeches (186) at temple.—Injections of morphine (231 e).—Vapors inducing anæsthesia in the external auditory canal.

—Keep from any irritation.—Bromides (31).—Tineture of aconite root [20 to 30 drops daily as a draught.]—Gelsemium (121).

In persisting spasm: Neurotomy or extirpation of the external nasal nerve.

290. SPECIES SUDORIFICÆ.

Adjuvant to diaphoretics and diuretics.

291. SPECIFIC TREATMENT. — ANTI-SYPHILITIC TREATMENT.

There are three methods of administering mercury, which should be applied according to the indication to be met.

a. Internal medication.—This is the most practical and the most simple method of administering mercury, but it naturally depends upon the gastro-intestinal tolerance of the patient.—It is not indicated in dyspepsia or any digestive troubles, tendency to diarrhea, etc.—a'. Protiodide pills (5 centigr. for each pill with 1 centigr. of extract of opium). 1, later 2, of these pills a day just before meals.—Or a". Sublimate pills (302 c). From 2 to 3 or even 4 of these pills a day where the stomach tolerates them. They should be taken immediately before or with meals.

—Or a'''. Van Swieten's solution (302 d) (1 or 2 tablespoonfuls a day in milk).

b. Method of administering mercury by inunctions. —This method, while very efficacious, is often repellent to the patient on account of the difficulties encountered in applying it. Above all, there are dangers from irritation of the buccal cavity in it, which it is well to avert in time. The method is not indicated for patients with poor teeth or chronic gingivitis.—Daily inunctions (lasting at least 10 minutes) with 4|0 (1z) of the double mercurial ointment (equal parts mercury and excipient). These inunctions should be made alternately on one and on the other side of the body below the armpits.—Use ointment in the evening and leave it in contact with the skin over night.—Wipe off the ointment in the morning, wash with soap and powder with starch-meal.

Watch the oral eavity during this treatment. Strict hygiene of the mouth.—Brush the teeth morning, night, and after meals.—Gargles of chlorate of potassium (4|0 to one large glass of water).—At the slightest trace of gingivitis suspend inunctions.

c. Method of administering mercury by injections. This is a very active method and in particular acts quickly. It is therefore to be preferred to the other methods where an imminent danger is to be averted or rapid action is indicated. However, it has its inconveniences, as it is painful and produces nodules or sometimes even abscesses at the seat of the injection.—It can be administered: (1) By daily injections of Delpech's solution (229 n) (1 Pravaz syringeful); or with the solution of the biniodide of

SPECIFIC TREATMENT

mercury in oil (229 i) in the same dose; or (2) the more active method with calomel injections at greater intervals can be employed:

| Powdered calomel | | | | | | | | | | | | | . 1 | 0 | 15 gr. |
|-------------------|-----|-----|----|------|----|-----|-----|-----|-----|-----|---|-----|------|----|-----------------|
| Hydrocarbon oil . | | | | | | | | | | | | | . 10 | 0 | $2\frac{1}{2}3$ |
| 1 Pravaz syringe | ? | con | ta | iins | | abc | ut | 0 | 7 . | 1 (| 1 | 1-2 | gr.) | of | calomel. |
| -Dose: 1-2 Pravaz | 2 . | sur | in | gef | ul | ev | ere | 4 2 | ve | ek. | | | | | |

Observe the usual rules of *strict antisepsis* while making these injections: Wash seat of injection previously with a sublimate or carbolic acid solution.—Use a syringe that can be sterilized; wash syringe with alcohol or carbolic acid solution; disinfect needle by heating.

Injection should always be a deep one. Deep injections are, as a rule, well borne by patients, while superficial injections are painful and dangerous at the same time.

These hypodermic injections can be made either in the retro-trochanteric fovea, the lumbar, or the gluteal region.

d. Combined treatment.

Where indications demand the reënforcement of the action of mercury by that of iodide of potassium, prescribe this drug and use in conjunction with mercurials:

| d'. Distilled | water | | | | | | | | | 500 0 | 1 pt. |
|----------------|---------|------|-----|-----|------|---|------|----|-----|------------|-------|
| Iodide of | potassi | um | | | | | | | | 30 0 | 13 |
| 2 to 4 | tablesp | oonf | uls | bej | core | m | eals | in | 1-2 | ? glass of | milk, |
| beer, or sugar | water. | | | | | | | | | | |
| Or: | | | | | | | | | | | |

One of the best methods of administering the combined treatment is the following: Immediately before each meal one (Dupuytren) sublimate pill (229 e) taken with a spoonful of the iodide solution or syrup.

Or: One injection or one daily inunction together with 2 to 3 to 4 tablespoonfuls of the iodide of potassium solution or syrup.

292. STAPHYLOMA, PARTIAL CORNEAL.

In a *recent* staphyloma: Repeated paracentesis followed by an aseptic pressure bandage.

Iridectomy.—Tattooing.—Excision of the cicatricial tissue.

Staphyloma, Pellucid Corneal. See KERATO-CONUS (177).

293. STAPHYLOMA, TOTAL CORNEAL.

According to the degree of prominence: Tattooing or ablation with strict antiseptic precautions.

294. STAPHYLOMA, ANTERIOR SCLE-RAL.

Watch the case.—Where patient insists upon an operation: Ablation with strict antiseptic precautions.—Where staphyloma is very large and hinders the movements of the lids: Enucleation.

295. STRABISMUS, CONVERGENT NON-PARALYTIC.

In children under one year: Do not interfere.— Later, atropine (23 a) (0|02 in $10|0[\frac{1}{3}]$ gr. in $2\frac{1}{2}$ 3]); carefully instil one drop into each eye once or twice daily. For older patients use a stronger solution.—For children under three years give atropine in form of an ointment (23 d).—Convex tinted glasses correcting the whole hypermetropia.—Avoid looking near by as much as possible.—At an age where study is indispensable give for near vision convex glasses 3 D stronger than glasses used for distance, so as to be able to continue using mydriatic.

To develop binocular vision: Stereoscopic exercises repeated several times a day, even if only for a few minutes at a time.

This paeific treatment is continued as long as strabismus diminishes.—Should *strabismus* remain *stationary: Surgical intervention*. Where one eye has very poor vision, this should take place immediately. Where vision in both eyes is good: Operation can be postponed for months and years.

The surgical treatment which can be most recommended for convergent strabismus is the advancement of the external recti of both eyes without tenotomy of the internal recti. Advancement of the rectus externus of the strabotic eye alone will but rarely be sufficient.

After operation bandage both eyes and order patient to remain in bed until healing has taken place (6 days, as a rule).—When use of bandage is discontinued: Atropine, convex glasses, stereoscopic exercises until any tendency to strabismus has disappeared.

This treatment should not be suddenly interrupted. Begin by decreasing the dose of the mydriatic, later decrease strength of convex lenses. The glass correcting the manifest hypermetropia is retained as long as eye covered with the hand shows any tendency to convergence.—Watch and strengthen the general health.

Where strabismus is of long standing, of high degree, and where motility towards temples is limited, increase the effect of an advancement by resection of the tendinous ends of the external recti.—In the highest degrees only tenotomy of the internal rectus of the deviated eye may be added. But this tenotomy should be made very cautiously and not before several weeks or months have passed since the principal operation: Horizontal conjunctival incision, detachment of the tendinous end without lengthening the cut into Tenon's capsule.

In over-correction: Stop use of atropine, remove the binocular bandage as soon as possible, practise convergence.—Where necessary, reattachment of the retracted internal rectus by a suture.

In case of insufficient correction: At first energetic exercise without further surgical intervention.— Where insufficiency is due to the fact that the external rectus is attached too far away from the cornea, perform operation for the advancement of this muscle again.—It will hardly ever be necessary to perform tenotomy of both interni.

We would caution against the forced tenotomy as well as the "thread operation."—Prominence of the eyeball, retraction of the caruncula, restriction of the movement of the eye inward, and insufficiency of convergence may result, followed in most cases by a divergent strabismus.

296. STRABISMUS DEORSUM VER-GENS.

If due to a *systemic disease*: Treat this disease. Should this not promise much: Surgical treatment.

Slight degree of strabismus deorsum vergens: Advancement of the superior rectus.

Medium degree: Extensive advancement of superior rectus with slight tenotomy of the inferior rectus.

High degree: Perform advancement of inferior rectus or tenotomy of superior rectus or both on the healthy eye in addition to the treatment mentioned above.

General rule: When a difference in the level of both eyes exists, it is better to place the eye which has the higher level on to a lower level (increasing the power of the inferior rectus by advancement), than to raise the other by a tenotomy of this muscle. As a matter of fact, the eyes are used more in lowering the glance than in looking up.

297. STRABISMUS, DIVERGENT NON-PARALYTIC.

Advancement of both internal reeti will nearly always be necessary. Stereoscopic exercises greatly assist in this treatment.

In divergent strabismus of *long standing* and of *high degree* generally affecting an amblyopic eye, *tenotomy of the external rectus* must be *added* to a comprehensive advancement of the internus. Often even a combination of the advancement of both internal recti with a tenotomy of both external

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recti is necessary to achieve a sufficient correction.

—Exercising convergence is useful to heighten the effect of the operation.

In over-correction: Reattach by advancement one of the muscles upon which tenotomy has been performed without touching those upon which advancement has already been practised.

Slight degrees of divergent strabismus are treated as Insufficiency of Convergence (142).

Strabismus, Paralytic. See Paralysis of the Ocular Muscles (246).

298. STRABISMUS SURSUM VERGENS.

Where surgical treatment is indispensable: Slight degree: Advancement of inferior rectus.

Medium degree: Advancement of inferior rectus with tenotomy of superior rectus, even detachment at its origin of the inferior oblique muscle.

Where the *degree* is *very high*: Assist these operations by a tenotomy of the inferior rectus of the other eye.

Compare also Strabismus Deorsum Vergens (296).

299. STROPHANTHIN.

1 syringe = $0 \mid 0005$ to $0 \mid 001$ (1-125 gr. to 1-60 gr.) of strophanthin; injection 20 minutes before narcosis in case of disease of the heart.

300. STRYCHNINE.

| a. Sulphate o | r nitrate | of strych | nine | | . 0 10 | 1½ gr. |
|---------------|-----------|-----------|----------|------|------------|--------|
| Distilled w | | | | | | |
| 1 syring | e=0 01 | strychnin | e; begin | with | 1-4 syring | eful. |

STYE-SUBLIMATE

b. Sulphate or nitrate of strychnine ... 0 40 6 gr. Lard ... 20 00 53

Periocular inunctions, once or twice daily.

301. STYE. — HORDEOLUM. — FURUN-CLE OF THE LIDS.

Poultices (255).—Incision followed by an antiseptic bandage (101).

As a prophylactic: Frequent sublimate washes $(302\ b)$; watch coexisting conjunctivitis (70) and blepharitis (26); derivative treatment.

302. SUBLIMATE, CORROSIVE = BI-CHLORIDE OF MERCURY.

- a. Solution 1:500: For disinfection of hands.— Treatment of purulent conjunctivitis and of granulations [friction of everted lids after massage with powdered boric acid].
- b. Solution 1:5000: The usual solution for washing and eye bandages.—For cataract operation add half the quantity of sterilized water.

These solutions [a and b] are more efficacious and will keep better if a quantity of chloride of sodium equal to that of sublimate is added.

| c. Peptone 1 0 | 15 gr. |
|--|---|
| Distilled water 50 0 | 13 53 |
| Filter and add: | |
| Corrosive sublimate solution 5: 100 20 0 | 53 |
| Chloride of sodium solution 20: 100 16 0 | 1 2 |
| Distilled water, q. s. to make 100 0 | 3 3 2 3 |
| 1 $suringe = 0 \mid 01 \mid (1-6 \mid qr \mid)$ of $sublimate$. | |

SULFONAL—SWEATING

| d. Van Swieten's Solution: |
|--|
| Corrosive sublimate 1 0 15 gr. |
| 80 per cent. alcohol 100 0 3 ₹ 2 ₹ 3 |
| Distilled water |
| |
| Not to be recommended for local applications; the |
| alcohol contained in it is irritating to the eye. |
| e. Dupuytren's Pills: |
| |
| Corrosive sublimate |
| Extract of opium 1 00 15 gr. |
| Extract of liquorice, q. s. for 50 pills. |
| 4 pills daily, to be taken immediately before or with meals. |
| Sublimate Baths. See MEDICATED BATHS (25). |
| |
| 303. SULFONAL. |
| 2 0 to 4 0 (1-23 to 13) as a powder.—Before retiring. |
| The term of the state of the st |
| 304. SULPHUR. |
| Precipitated sulphur 1 0 15 gr. |
| |
| Application to remain on parts for several hours. |
| representation to remain on parts for several nours. |
| 205 CHIEATING METHODICAL DIA |
| 305. SWEATING, METHODICAL.—DIA- |
| PHORESIS. |
| In nearly all eye troubles steam baths are contra- |
| indicated, as they cause congestion to the head. |
| Only when every trace of inflammation is gone can |
| |
| they be used. |
| Sweating and salivation through pilocarpine: |
| a. As a draught [where stomach tolerates it]: |
| Hydrochlorate of pilocarpine 0 20 3 gr. |
| |
| |
| Distilled water |
| 2 to 4 two tespoon futs active, at the ervaits of 1-2 hour. |

SYMBLEPHARON—SYNCHISIS

b. Hypodermic injections:

Hydrochlorate of pilocarpine $0 \mid 10 = 1\frac{1}{2}$ gr. Distilled water $10 \mid 00 = 2\frac{1}{2}$

Dissolve and filter; 1 syringe $= 0 \mid 01 \mid (1.6 \text{ gr.})$ of pilocarpine; 1 to 2 syringefuls a day.

To assist sweating and as a diuretic prescribe: Tea of species sudorifice (290), of linden flowers, of sambucus, of quassia or the acetate of potassium (254).

In case of pilocarpine poisoning:

a. Absorption by gastro-intestinal tract:

Stomach-pump or hypodermic injections of a solution of hydrochlorate of apomorphine (2:100), up to 0 | 03 (1-2 gr.).

 β . Absorption through the tissues (injections):

Hypodermic injection of one milligramme of neutral sulphate of atropine [2-10 of a Pravaz syringeful of the ordinary collyrium (23 a)].

In both cases internally: Black coffee, brandy, carbonate of ammonia (10 b).

306. SYMBLEPHARON.

Surgical treatment.

307. SYNCHISIS, SCINTILLANT.—SCIN-TILLANT SCOTOMA, WITH OB-JECTIVE SYMPTOMS.

[Crystals of cholesterin and tyrosine in the vitreous.]

Combat biliary lithiasis depending on alcoholism or arthritis.—Repeated paracentesis where there is also cholesterin or tyrosine in the aqueous humor.

Syphilis. See Specific Treatment (291).

308. SYRUPUS ARMORACIÆ.

Simple or with iodine. A small glassful at meals.

309. TALC.

Dust upon integuments [moist and excoriated parts].

310. TANNIN.—TANNIC ACID.

| α. | Pure tannin | | | | | | | | | | | | | |
|----|---------------------------------------|----|---|---|---|---|---|---|---|---|----|------|------|-----------------|
| | Fennel water | | | | | | | | | | | 20 | 00 | 53 |
| | Distilled water | ٠ | • | • | • | | | • | • | • | | 100 | 00 | 33 23 |
| b. | Tannin Glycerin | | | | | | • | | | } | āē | 10 | 0 āā | $2\frac{1}{2}3$ |
| | Glycerole of starch Apply to exceria | 1. | | | | • | ٠ | • | • | • | | . 50 | 0 | 13 53 |

311. TARSITIS.

Antisyphilitic (291) or antiscrofulous treatment [iron (164), arsenic (20), cod-liver oil (54)].

Massage on a plate lid holder with an anodyne ointment or simple mercurial ointment. — Hot fomentations. —Scarifications.

312. THYMOL = THYMIC ACID.

Can replace phenol; as a spray $(\frac{1}{2}$ to 1:1000) upon the closed lids.

To make a 1:1000 solution: Dissolve the thymol in $4\mid 0$ (13) of 90 per cent. alcohol before adding water.

313. TILIÆ, AQUA.

Soothing compresses.—Can also be added to the different collyria.

Trachoma. See Granular Conjunctivitis (75).

314. TRICHIASIS.

Destroy root of lashes by electrolysis. [See Distichlasis (97).]

315. TRIONAL.

1|0 to 1|50 (15 gr. to 23 gr.) in a cup of hot milk before retiring.

316. TRYPSIN.

10:100 solution; dissolves diphtheritic membranes.

Tylosis. See LIDS (219).

Ulcer, Indolent. See NEUROPARALYTIC KERATITIS (171).

Ulcer of the Cornea. See Ulcerous Keraturis (176).

Unna's Ointment. See PEROXIDE OF HYDROGEN (135).

317. VASELINE.

Good excipient for eye salves; does not irritate; does not change when exposed to air.—In summer add a little ceresin or simple wax to keep it from getting too liquid.

White vaseline is the best as long as it is pure; when not sure of its quality take the yellow by preference.—Vaseline must be tasteless, odorless, and neutral.

VERATRINE—VITREOUS

318. VERATRINE.

| Veratrine. | | | | | | | | 0 50 | 71 gr. |
|------------|--|--|--|--|--|--|--|-------|--------|
| Lard | | | | | | | | 20 00 | 53 |
| Periocula: | | | | | | | | • | • |

319. VITREOUS, CYSTICERCUS OF THE.

Sufficiently long incision [not less than 8 mm.] in the direction of the cysticercus, following as much as possible a meridian of the eyeball.—Extraction with a hook, forceps, or by aspiration.—Sutures, antiseptic bandage (101).

Possibility of the presence of a second cysticercus!

320. VITREOUS, DETACHMENT OF THE.

Absolute rest.—Atropine (23 a).—Pressure bandage.—Diaphoresis (305), diuresis, laxatives.—See Detachment of the Retina (265).

321. VITREOUS, FOREIGN BODY OF THE.

Extraction with the electro-magnet, or, according to the case, with a hook or the forceps. Incision of the sclera in the region of the foreign body; sutures; antiseptic bandage (101).—This operation can be performed even when suppuration has begun around a piece of metal.—In case of extensive suppuration: Enucleation or evisceration.

322. VITREOUS, HEMORRHAGES INTO THE.

Treat the systemic disease: Nephritis, diabetes, pernicious anæmia.—Special treatment of the choroiditis (47) and chorio-retinitis (271).

Hemorrhage from *circulatory troubles* or *trauma*: Absolute rest, darkened room.—Atropine (23 a).—Pressure bandage.—Cupping at the temple.—Iced compresses upon the eye.

Later diaphoresis, diuresis, laxatives [pilocarpine (305), salicylate of soda (275), calomel (33 d)].—Iodide of potassium (146 c).—Hot compresses.—Local douches alternately hot and cold.—Repeated paracentesis.

323. VITREOUS, LIQUEFACTION OF THE.—SYNCHISIS.

Treat the systemic disease.—See Choroiditis (47) and Retinitis (271).

324. VITREOUS, OPACITIES OF THE.

Special treatment of the choroiditis (47) and retinitis (271).

Derivative treatment, pilocarpine (305), iodide of potassium (146 c).—Galvanic current.—Prolonged poultices (255) upon the eye.—Where thick central membranes are found a discission should be made and the membranes can be displaced. [Scleronyxis.]

White Precipitate. See MERCURY (229). Xerosis. See CONJUNCTIVA (67).

325. ZINC.

| a. Sulphate or sulphophenate of zinc | $0 \mid 10 \text{ to } 0 \mid 20$ | 1½ gr. to 3 gr. |
|--------------------------------------|-----------------------------------|-----------------|
| Distilled rose water | 50 00 | 13 53 |
| Distilled water | 150 00 | 53 |

ZONA OPHTHALMICA

| | le of zinc. | | | | | | | | $7\frac{1}{2}$ gr. |
|---------|-----------------------|------|-------|------|---|---|-----------|---------|--------------------|
| Vas | eline | | | | | | 15 0 to | 25 00 | 43 to 63 |
| c. Chlo | oride of zin | ıc . | | | | _ | | 0 20 | 3 gr. |
| Dist | illed water | | | | | | | 30 00 | 13 |
| | eture of op $ilter$. | ium | • | •. • | ٠ | ٠ | . 10 di | rops. | 10 gtt. |
| | tate of zinc | | | | | | | . 0 30 | $4\frac{1}{2}$ gr. |

326. ZONA OPHTHALMICA.

Cupping (60 | 0 to 80 | 0 [23 to 23 53]) near orifice of external nasal nerve.—Atropine (23 a).—Antiseptic bandage (101).—Washes and hot compresses, with:

| Neutral acetate of lead | | | | | | 3 0 | 45 gr. |
|----------------------------|--|--|--|--|--|-------|----------------|
| Powdered alum | | | | | | | $\frac{1}{2}3$ |
| Distilled sterilized water | | | | | | 150 0 | 53 |

For pain: Instillations of cocaine (52 a), injections of morphine (231 c) at the temple.

Internally: Quinine (259), antipyrin (15 a), antifebrin (14), or:

| ~ ~ / | | | | | | |
|----------------------------|--|--|--|--|-----|--------|
| Fluid extract of gelsemium | | | | | 1]0 | 15 gr. |
| Sulphophenate of sodium . | | | | | 7 0 | 133 |
| Distilled water | | | | | | 53 |

Mix; teaspoonful every 2 hours.

Where vesicles having burst become ulcers:

Apply antiseptic washes (sublimate 1:2000), boric acid 4:100, etc., and later on ointments with calomel (33 a, b) or yellow oxide of mercury (229 a, b).

THE END.

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